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1.2 java-uuid-generator 4.0.1

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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high implementation quality

1.3 xml-apis 2.0.2

1.3.1 Available under license :

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```
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```

```
/**
```

```
* Base class for deriving an XML filter.
```

```
*
```

```
* <blockquote>
```

```
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```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This class is designed to sit between an { @link org.xml.sax.XMLReader
* XMLReader} and the client application's event handlers. By default, it
* does nothing but pass requests up to the reader and events
* on to the handlers unmodified, but subclasses can override
* specific methods to modify the event stream or the configuration
* requests as they pass through.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.XMLReader
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ContentHandler
* @see org.xml.sax.ErrorHandler
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLFilterImpl.java

```

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```

/**
* Basic interface for SAX error handlers.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>If a SAX application needs to implement customized error
* handling, it must implement this interface and then register an
* instance with the XML reader using the
* { @link org.xml.sax.XMLReader#setErrorHandler setErrorHandler}
* method. The parser will then report all errors and warnings
* through this interface.</p>
*
* <p><strong>WARNING:</strong> If an application does <em>not</em>
* register an ErrorHandler, XML parsing errors will go unreported
* and bizarre behaviour may result.</p>
*
* <p>For XML processing errors, a SAX driver must use this interface
* instead of throwing an exception: it is up to the application

```


* to decide whether to throw an exception for different types of
 * errors and warnings. Note, however, that there is no requirement that
 * the parser continue to provide useful information after a call to
 * { @link #fatalError fatalError } (in other words, a SAX driver class
 * could catch an exception and report a fatalError).</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 * sax@megginson.com
 * @version 2.0
 * @see org.xml.sax.Parser#setErrorHandler
 * @see org.xml.sax.SAXParseException
 */

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ErrorHandler.java
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/**

* Interface for a list of XML attributes.

*

* <blockquote>

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* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>This interface allows access to a list of attributes in

* three different ways:</p>

*

*

* by attribute index;

* by Namespace-qualified name; or

* by qualified (prefixed) name.

*

*

* <p>The list will not contain attributes that were declared

* #IMPLIED but not specified in the start tag. It will also not

* contain attributes used as Namespace declarations (xmlns*) unless

* the <code>http://xml.org/sax/features/namespace-prefixes</code>

* feature is set to <var>>true</var> (it is <var>>false</var> by

* default).</p>

*

* <p>If the namespace-prefixes feature (see above) is <var>>false</var>,</p>

* access by qualified name may not be available; if the

* <code>http://xml.org/sax/features/namespaces</code>

* feature is <var>>false</var>, access by Namespace-qualified names

* may not be available.</p>

```

*
* <p>This interface replaces the now-deprecated SAX1 { @link
* org.xml.sax.AttributeList AttributeList } interface, which does not
* contain Namespace support. In addition to Namespace support, it
* adds the <var>getIndex</var> methods (below).</p>
*
* <p>The order of attributes in the list is unspecified, and will
* vary from implementation to implementation.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.helpers.AttributeListImpl
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Attributes.java

```

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```

/**
* Default implementation for AttributeList.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>AttributeList implements the deprecated SAX1 { @link
* org.xml.sax.AttributeList AttributeList } interface, and has been
* replaced by the new SAX2 { @link org.xml.sax.helpers.AttributesImpl
* AttributesImpl } interface.</p>
*
* <p>This class provides a convenience implementation of the SAX
* { @link org.xml.sax.AttributeList AttributeList } interface. This
* implementation is useful both for SAX parser writers, who can use
* it to provide attributes to the application, and for SAX application
* writers, who can use it to create a persistent copy of an element's
* attribute specifications:</p>
*
* <pre>
* private AttributeList myatts;
*
* public void startElement (String name, AttributeList atts)
* {
*     // create a persistent copy of the attribute list
*     // for use outside this method
*     myatts = new AttributeListImpl(atts);

```

```

* [...]
* }
* </pre>
*
* <p>Please note that SAX parsers are not required to use this
* class to provide an implementation of AttributeList; it is
* supplied only as an optional convenience. In particular,
* parser writers are encouraged to invent more efficient
* implementations.</p>
*
* @deprecated This class implements a deprecated interface,
*     { @link org.xml.sax.AttributeList AttributeList};
*     that interface has been replaced by
*     { @link org.xml.sax.Attributes Attributes},
*     which is implemented in the
*     { @link org.xml.sax.helpers.AttributesImpl
*     AttributesImpl} helper class.
* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.AttributeList
* @see org.xml.sax.DocumentHandler#startElement
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributeListImpl.java

```

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```

// NO WARRANTY! This class is in the Public Domain.

```

```

/**

```

```

* Interface for an XML filter.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* </blockquote>

```

```

*

```

```

* <p>An XML filter is like an XML reader, except that it obtains its

```

```

* events from another XML reader rather than a primary source like

```

```

* an XML document or database. Filters can modify a stream of

```

```

* events as they pass on to the final application.</p>

```

```

*

```

```

* <p>The XMLFilterImpl helper class provides a convenient base

```

```

* for creating SAX2 filters, by passing on all { @link org.xml.sax.EntityResolver

```

```

* EntityResolver}, { @link org.xml.sax.DTDHandler DTDHandler},

```

```

* { @link org.xml.sax.ContentHandler ContentHandler} and { @link org.xml.sax.ErrorHandler

```

```
* ErrorHandler} events automatically.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.helpers.XMLFilterImpl
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLFilter.java
```

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```
/**
 * Interface for associating a SAX event with a document location.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>If a SAX parser provides location information to the SAX
 * application, it does so by implementing this interface and then
 * passing an instance to the application using the content
 * handler's { @link org.xml.sax.ContentHandler#setDocumentLocator
 * setDocumentLocator} method. The application can use the
 * object to obtain the location of any other content handler event
 * in the XML source document.</p>
 *
 * <p>Note that the results returned by the object will be valid only
 * during the scope of each content handler method: the application
 * will receive unpredictable results if it attempts to use the
 * locator at any other time.</p>
 *
 * <p>SAX parsers are not required to supply a locator, but they are
 * very strongly encouraged to do so. If the parser supplies a
 * locator, it must do so before reporting any other document events.
 * If no locator has been set by the time the application receives
 * the { @link org.xml.sax.ContentHandler#startDocument startDocument}
 * event, the application should assume that a locator is not
 * available.</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 *   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.ContentHandler#setDocumentLocator
 */
```

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Locator.java

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/**

* Receive notification of basic DTD-related events.

*

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*

* <p>If a SAX application needs information about notations and

* unparsed entities, then the application implements this

* interface and registers an instance with the SAX parser using

* the parser's setDTDHandler method. The parser uses the

* instance to report notation and unparsed entity declarations to

* the application.</p>

*

* <p>Note that this interface includes only those DTD events that

* the XML recommendation requires processors to report:

* notation and unparsed entity declarations.</p>

*

* <p>The SAX parser may report these events in any order, regardless

* of the order in which the notations and unparsed entities were

* declared; however, all DTD events must be reported after the

* document handler's startDocument event, and before the first

* startElement event.</p>

*

* <p>It is up to the application to store the information for

* future use (perhaps in a hash table or object tree).

* If the application encounters attributes of type "NOTATION",

* "ENTITY", or "ENTITIES", it can use the information that it

* obtained through this interface to find the entity and/or

* notation corresponding with the attribute value.</p>

*

* @since SAX 1.0

* @author David Megginson,

* sax@megginson.com

* @version 2.0

* @see org.xml.sax.Parser#setDTDHandler

* @see org.xml.sax.HandlerBase

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/DTDHandler.java

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jar/javax/xml/parsers/ConvertToURI.java
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/**

* Default base class for handlers.

*

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* </blockquote>

*

* <p>This class implements the default behaviour for four SAX1

* interfaces: EntityResolver, DTDHandler, DocumentHandler,

* and ErrorHandler. It is now obsolete, but is included in SAX2 to

* support legacy SAX1 applications. SAX2 applications should use

* the { @link org.xml.sax.helpers.DefaultHandler DefaultHandler }

* class instead.</p>

*

* <p>Application writers can extend this class when they need to

* implement only part of an interface; parser writers can

* instantiate this class to provide default handlers when the

* application has not supplied its own.</p>

*

* <p>Note that the use of this class is optional.</p>

*

* @deprecated This class works with the deprecated

* { @link org.xml.sax.DocumentHandler DocumentHandler }

* interface. It has been replaced by the SAX2

* { @link org.xml.sax.helpers.DefaultHandler DefaultHandler }

* class.

* @since SAX 1.0

* @author David Megginson,

* sax@megginson.com

* @version 2.0

* @see org.xml.sax.EntityResolver

* @see org.xml.sax.DTDHandler

* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/HandlerBase.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMBuilderFilter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMInputSource.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DocumentLS.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathNSResolver.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathResult.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathExpression.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMWriter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathNamespace.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMEntityResolver.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMBuilder.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/LSLoadEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/LSProgressEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/ParseErrorEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMWriterFilter.java

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/*

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* PURPOSE.
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*/

/**

* **DOM Level 3 WD Experimental:**
* The DOM Level 3 specification is at the stage
* of Working Draft, which represents work in
* progress and thus may be updated, replaced,
* or obsoleted by other documents at any time. <p>
* `XPathEvaluator`, which will provide evaluation of XPath 1.0
* expressions with no specialized extension functions or variables. It is
* expected that the `XPathEvaluator` interface will be
* implemented on the same object which implements the `Document`
* interface in an implementation which supports the XPath DOM module.
* `XPathEvaluator` implementations may be available from other
* sources that may provide support for special extension functions or
* variables which are not defined in this specification. The methods of
* `XPathExpression` should be named with more-XPath- specific names because
* the interface will often be implemented by the same object which
* implements document.No change.The point of interfaces is to localize the
* implementing namespace. This would make the method names unnecessarily
* long and complex even though there are no conflicts in the interface
* itself. The new core method `getInterface` is designed for discovering
* interfaces of additional modules that may not be directly implemented on
* the objects to which they are attached. This could be used to implement
* XPath on a separate object. The user only refers to the separate
* interfaces and not the proprietary aggregate implementation.Should entity
* refs be supported so that queries can be made on them?No change.We will
* not do this now. They are not part of the XPath data model. Note that
* they may be present in the hierarchy of returned nodes, but may not
* directly be requested or returned in the node set.What does `createResult`
* create when one wants to reuse the XPath?It is not useful.Removed method.
* Should ordering be a separate flag, or a type of result that can be
* requested. As a type of result, it can be better optimized in
* implementations.It makes sense as a type of result. Changed.Removed
* method.Implementing `XPathEvaluator` on `Document` can be a problem due to
* conflicts in the names of the methods.The working group finds no better
* solution. `GetInterface` in Level 3 permits the object to be implemented

* separately. We should be committed to this. We will leave this issue open
 * to see if we get more feedback on it. How does this interface adapt to
 * XPath 2.0 and other query languages. No change. This interface is not
 * intended to adapt to XPath 2.0 or other languages. The models of these
 * are likely to be incompatible enough to require new APIs. For alternate
 * implementations that can use this API, it can be obtained from different
 * sources. Support for custom variables and functions would be very useful.
 * No change. It is possible for an implementation to supply alternative
 * sources of an XPathEvaluator that can be customized with a custom
 * variable and function context. We do not specify how this is
 * accomplished. It is too complex to address in this version of the XPath
 * DOM.
 * <p>See also the Document Object
 Model (DOM) Level 3 XPath Specification.
 */

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
 jar/org/w3c/dom/xpath/XPathEvaluator.java

No license file was found, but licenses were detected in source scan.

/**

* Interface for an element's attribute specifications.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>This is the original SAX1 interface for reporting an element's

* attributes. Unlike the new { @link org.xml.sax.Attributes Attributes }

* interface, it does not support Namespace-related information.</p>

*

* <p>When an attribute list is supplied as part of a

* { @link org.xml.sax.DocumentHandler#startElement startElement }

* event, the list will return valid results only during the

* scope of the event; once the event handler returns control

* to the parser, the attribute list is invalid. To save a

* persistent copy of the attribute list, use the SAX1

* { @link org.xml.sax.helpers.AttributeListImpl AttributeListImpl }

* helper class.</p>

*

* <p>An attribute list includes only attributes that have been

* specified or defaulted: #IMPLIED attributes will not be included.</p>

*

* <p>There are two ways for the SAX application to obtain information

* from the AttributeList. First, it can iterate through the entire

* list:</p>

```

*
* <pre>
* public void startElement (String name, AttributeList atts) {
*   for (int i = 0; i < atts.getLength(); i++) {
*     String name = atts.getName(i);
*     String type = atts.getType(i);
*     String value = atts.getValue(i);
*     [...]
*   }
* }
* </pre>
*
* <p>(Note that the result of getLength() will be zero if there
* are no attributes.)
*
* <p>As an alternative, the application can request the value or
* type of specific attributes:</p>
*
* <pre>
* public void startElement (String name, AttributeList atts) {
*   String identifier = atts.getValue("id");
*   String label = atts.getValue("label");
*   [...]
* }
* </pre>
*
* @deprecated This interface has been replaced by the SAX2
*   { @link org.xml.sax.Attributes Attributes }
*   interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.DocumentHandler#startElement startElement
* @see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/

```

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java

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/**

* Receive notification of general document events.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* </blockquote>

```

*
* <p>This was the main event-handling interface for SAX1; in
* SAX2, it has been replaced by { @link org.xml.sax.ContentHandler
* ContentHandler}, which provides Namespace support and reporting
* of skipped entities. This interface is included in SAX2 only
* to support legacy SAX1 applications.</p>
*
* <p>The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.</p>
*
* <p>Application writers who do not want to implement the entire
* interface can derive a class from HandlerBase, which implements
* the default functionality; parser writers can instantiate
* HandlerBase to obtain a default handler. The application can find
* the location of any document event using the Locator interface
* supplied by the Parser through the setDocumentLocator method.</p>
*
* @deprecated This interface has been replaced by the SAX2
*     { @link org.xml.sax.ContentHandler ContentHandler}
*     interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setDocumentHandler
* @see org.xml.sax.Locator
* @see org.xml.sax.HandlerBase
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/DocumentHandler.java

```

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```

// NO WARRANTY! This class is in the Public Domain.

```

```

/**

```

```

* Factory for creating an XML reader.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>

```

```

* for further information.

```

```

* </blockquote>

```

```

*

```

```

* <p>This class contains static methods for creating an XML reader
* from an explicit class name, or based on runtime defaults:</p>
*
* <pre>
* try {
*   XMLReader myReader = XMLReaderFactory.createXMLReader();
* } catch (SAXException e) {
*   System.err.println(e.getMessage());
* }
* </pre>
*
* <p><strong>Note to Distributions bundled with parsers:</strong>
* You should modify the implementation of the no-arguments
* <em>createXMLReader</em> to handle cases where the external
* configuration mechanisms aren't set up. That method should do its
* best to return a parser when one is in the class path, even when
* nothing bound its class name to <code>org.xml.sax.driver</code> so
* those configuration mechanisms would see it.</p>
*
* @since SAX 2.0
* @author David Megginson, David Brownell
* @version 2.0r2pre3
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLReaderFactory.java

```

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```

// This class is in the Public Domain. NO WARRANTY!

```

```

/**

```

```

* Encapsulate Namespace logic for use by SAX drivers.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* </blockquote>

```

```

*

```

```

* <p>This class encapsulates the logic of Namespace processing:

```

```

* it tracks the declarations currently in force for each context

```

```

* and automatically processes qualified XML 1.0 names into their

```

```

* Namespace parts; it can also be used in reverse for generating

```

```

* XML 1.0 from Namespaces.</p>

```

```

*

```

```

* <p>Namespace support objects are reusable, but the reset method

```

```

* must be invoked between each session.</p>

```

```

*

```

```

* <p>Here is a simple session:</p>

```

```

*
* <pre>
* String parts[] = new String[3];
* NamespaceSupport support = new NamespaceSupport();
*
* support.pushContext();
* support.declarePrefix("", "http://www.w3.org/1999/xhtml");
* support.declarePrefix("dc", "http://www.purl.org/dc#");
*
* String parts[] = support.processName("p", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);

* String parts[] = support.processName("dc:title", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);

* support.popContext();
* </pre>
*
* <p>Note that this class is optimized for the use case where most
* elements do not contain Namespace declarations: if the same
* prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient.</p>
*
* @since SAX 2.0
* @author David Megginson,
*      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/NamespaceSupport.java

```

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```

// NO WARRANTY! This class is in the public domain.

```

```

/**

```

```

* Default base class for SAX2 event handlers.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* </blockquote>

```

```

*

```

```

* <p>This class is available as a convenience base class for SAX2

```

```

* applications: it provides default implementations for all of the
* callbacks in the four core SAX2 handler classes:</p>
*
* <ul>
* <li>{ @link org.xml.sax.EntityResolver EntityResolver}</li>
* <li>{ @link org.xml.sax.DTDHandler DTDHandler}</li>
* <li>{ @link org.xml.sax.ContentHandler ContentHandler}</li>
* <li>{ @link org.xml.sax.ErrorHandler ErrorHandler}</li>
* </ul>
*
* <p>Application writers can extend this class when they need to
* implement only part of an interface; parser writers can
* instantiate this class to provide default handlers when the
* application has not supplied its own.</p>
*
* <p>This class replaces the deprecated SAX1
* { @link org.xml.sax.HandlerBase HandlerBase } class.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ContentHandler
* @see org.xml.sax.ErrorHandler
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/DefaultHandler.java

```

No license file was found, but licenses were detected in source scan.

```

/**

```

```

* Encapsulate an XML parse error or warning.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* </blockquote>

```

```

*

```

```

* <p>This exception will include information for locating the error
* in the original XML document. Note that although the application
* will receive a SAXParseException as the argument to the handlers
* in the { @link org.xml.sax.ErrorHandler ErrorHandler } interface,
* the application is not actually required to throw the exception;
* instead, it can simply read the information in it and take a
* different action.</p>

```

```

*
* <p>Since this exception is a subclass of { @link org.xml.sax.SAXException
* SAXException}, it inherits the ability to wrap another exception.</p>
*
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXException
* @see org.xml.sax Locator
* @see org.xml.sax.ErrorHandler
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/SAXParseException.java

```

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```

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*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ranges/RangeException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CharacterData.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/NamedNodeMap.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Text.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Notation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/events/DocumentEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/events/EventTarget.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/traversal/DocumentTraversal.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Attr.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ProcessingInstruction.java

```


* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventException.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/TreeWalker.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/MutationEvent.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Comment.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/EntityReference.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentFragment.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CDATASection.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Node.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NodeList.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentType.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DOMImplementation.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventListener.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/NodeIterator.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Entity.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/DocumentRange.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DOMException.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Element.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/Range.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/NodeFilter.java
 * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Document.java
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```

/**
 * Basic interface for resolving entities.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>If a SAX application needs to implement customized handling
 * for external entities, it must implement this interface and
 * register an instance with the SAX driver using the
 * { @link org.xml.sax.XMLReader#setEntityResolver setEntityResolver }
 * method.</p>
 *
 * <p>The XML reader will then allow the application to intercept any
 * external entities (including the external DTD subset and external
 * parameter entities, if any) before including them.</p>

```

*
* <p>Many SAX applications will not need to implement this interface,
* but it will be especially useful for applications that build
* XML documents from databases or other specialised input sources,
* or for applications that use URI types other than URLs.</p>

*
* <p>The following resolver would provide the application
* with a special character stream for the entity with the system
* identifier "http://www.myhost.com/today":</p>

```
* <pre>  
* import org.xml.sax.EntityResolver;  
* import org.xml.sax.InputSource;  
*  
* public class MyResolver implements EntityResolver {  
*     public InputSource resolveEntity (String publicId, String systemId)  
*     {  
*         if (systemId.equals("http://www.myhost.com/today")) {  
*             // return a special input source  
*             MyReader reader = new MyReader();  
*             return new InputSource(reader);  
*         } else {  
*             // use the default behaviour  
*             return null;  
*         }  
*     }  
* }  
* }  
* }  
* </pre>
```

*
* <p>The application can also use this interface to redirect system
* identifiers to local URIs or to look up replacements in a catalog
* (possibly by using the public identifier).</p>

*
* @since SAX 1.0
* @author David Megginson,
* sax@megginson.com
* @version 2.0
* @see org.xml.sax.Parser#setEntityResolver
* @see org.xml.sax.InputSource
*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/EntityResolver.java

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/package.html

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/package.html

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHtmlElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParagraphElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBodyElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBRElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLLabelElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLDocument.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableRowElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLSelectElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLMenuElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLInputElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHeadingElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLDirectoryElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableCellElement.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/org/w3c/dom/html/HTMLHeadElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLBaseFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLUListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFrameSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLStyleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLOptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLOListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFieldSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLLegendElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFormElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLCollection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTextAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLLIElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLLinkElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLParamElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableColElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTitleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLButtonElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLIFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDivElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-

```

jar/org/w3c/dom/html/HTMLImageElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLScriptElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLModElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLOptGroupElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLBaseElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLQuoteElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDOMImplementation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLPreElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLMetaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLAnchorElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableSectionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLObjectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableCaptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLMapElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLAppletElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLIsIndexElement.java
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```

```

/**
 * Provide an optional convenience implementation of Locator.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class is available mainly for application writers, who
 * can use it to make a persistent snapshot of a locator at any
 * point during a document parse:</p>
 *
 * <pre>

```

```

* Locator locator;
* Locator startloc;
*
* public void setLocator (Locator locator)
* {
*     // note the locator
*     this.locator = locator;
* }
*
* public void startDocument ()
* {
*     // save the location of the start of the document
*     // for future use.
*     Locator startloc = new LocatorImpl(locator);
* }
* </pre>
*
* <p>Normally, parser writers will not use this class, since it
* is more efficient to provide location information only when
* requested, rather than constantly updating a Locator object.</p>
*
* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Locator Locator
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/LocatorImpl.java

```

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```

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 */

Found in path(s):

- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/ParserConfigurationException.java
- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryFinder.java
- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryConfigurationException.java
- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/javax/xml/parsers/SAXParserFactory.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/javax/xml/parsers/DocumentBuilderFactory.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParser.java

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/javax/xml/parsers/DocumentBuilderFactory.java

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/**

* Interface for reading an XML document using callbacks.

*

* <blockquote>

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* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>Note: despite its name, this interface does

* not extend the standard Java { @link java.io.Reader Reader }

* interface, because reading XML is a fundamentally different activity

* than reading character data.</p>

*

* <p>XMLReader is the interface that an XML parser's SAX2 driver must

* implement. This interface allows an application to set and

* query features and properties in the parser, to register

* event handlers for document processing, and to initiate

* a document parse.</p>

*

* <p>All SAX interfaces are assumed to be synchronous: the

* { @link #parse parse } methods must not return until parsing

* is complete, and readers must wait for an event-handler callback

* to return before reporting the next event.</p>

*

* <p>This interface replaces the (now deprecated) SAX 1.0 { @link

* org.xml.sax.Parser Parser } interface. The XMLReader interface

* contains two important enhancements over the old Parser

* interface:</p>

*

*

* it adds a standard way to query and set features and

* properties; and

* it adds Namespace support, which is required for many

* higher-level XML standards.

*

*

* <p>There are adapters available to convert a SAX1 Parser to

* a SAX2 XMLReader and vice-versa.</p>

*


```
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLFilter
* @see org.xml.sax.helpers.ParserAdapter
* @see org.xml.sax.helpers.XMLReaderAdapter
*/
```

Found in path(s):

```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLReader.java
```

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```
/**
```

```
* A single input source for an XML entity.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>This class allows a SAX application to encapsulate information
```

```
* about an input source in a single object, which may include
```

```
* a public identifier, a system identifier, a byte stream (possibly
```

```
* with a specified encoding), and/or a character stream.</p>
```

```
*
```

```
* <p>There are two places that the application will deliver this
```

```
* input source to the parser: as the argument to the Parser.parse
```

```
* method, or as the return value of the EntityResolver.resolveEntity
```

```
* method.</p>
```

```
*
```

```
* <p>The SAX parser will use the InputSource object to determine how
```

```
* to read XML input. If there is a character stream available, the
```

```
* parser will read that stream directly; if not, the parser will use
```

```
* a byte stream, if available; if neither a character stream nor a
```

```
* byte stream is available, the parser will attempt to open a URI
```

```
* connection to the resource identified by the system
```

```
* identifier.</p>
```

```
*
```

```
* <p>An InputSource object belongs to the application: the SAX parser
```

```
* shall never modify it in any way (it may modify a copy if
```

```
* necessary).</p>
```

```
*
```

```
* @since SAX 1.0
```

```
* @author David Megginson,
```

```
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
```

```
* @version 2.0
```

```
* @see org.xml.sax.Parser#parse
```

```
* @see org.xml.sax.EntityResolver#resolveEntity
* @see java.io.InputStream
* @see java.io.Reader
*/
```

Found in path(s):

```
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/InputStreamSource.java
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```

```
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```

```
/**
```

```
* Exception class for an unsupported operation.
```

```
*
```

```
* <blockquote>
```

```
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```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>An XMLReader will throw this exception when it recognizes a
```

```
* feature or property identifier, but cannot perform the requested
```

```
* operation (setting a state or value). Other SAX2 applications and
```

```
* extensions may use this class for similar purposes.</p>
```

```
*
```

```
* @since SAX 2.0
```

```
* @author David Megginson,
```

```
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
```

```
* @version 2.0
```

```
* @see org.xml.sax.SAXNotRecognizedException
```

```
*/
```

Found in path(s):

```
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotSupportedException.java
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```

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 */

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- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SecuritySupport.java
- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SecuritySupport12.java
- * /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-

```
jar/org/xml/sax/helpers/SecuritySupport12.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/SecuritySupport.java
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```
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/traversal/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/package.html
No license file was found, but licenses were detected in source scan.
```

```
// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class wraps a SAX1 { @link org.xml.sax.Parser Parser }
 * and makes it act as a SAX2 { @link org.xml.sax.XMLReader XMLReader },
 * with feature, property, and Namespace support. Note
 * that it is not possible to report { @link org.xml.sax.ContentHandler#skippedEntity
 * skippedEntity } events, since SAX1 does not make that information available.</p>
 *
 * <p>This adapter does not test for duplicate Namespace-qualified
 * attribute names.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.helpers.XMLReaderAdapter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.Parser
 */
/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
```

```

* <p>This class is in the Public Domain, and comes with NO
* WARRANTY of any kind.</p>
*
* <p>This wrapper class is used only when Namespace support
* is disabled -- it provides pretty much a direct mapping
* from SAX1 to SAX2, except that names and types are
* interned whenever requested.</p>
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/ParserAdapter.java

```

No license file was found, but licenses were detected in source scan.

```

// NO WARRANTY! This class is in the public domain.

```

```

/**

```

```

* Default implementation of the Attributes interface.

```

```

*

```

```

* <blockquote>

```

```

* <em>This module, both source code and documentation, is in the

```

```

* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

```

```

* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>

```

```

* for further information.

```

```

* </blockquote>

```

```

*

```

```

* <p>This class provides a default implementation of the SAX2

```

```

* { @link org.xml.sax.Attributes Attributes } interface, with the

```

```

* addition of manipulators so that the list can be modified or

```

```

* reused.</p>

```

```

*

```

```

* <p>There are two typical uses of this class:</p>

```

```

*

```

```

* <ol>

```

```

* <li>to take a persistent snapshot of an Attributes object

```

```

* in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>

```

```

* <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>

```

```

* </ol>

```

```

*

```

```

* <p>This class replaces the now-deprecated SAX1 { @link

```

```

* org.xml.sax.helpers.AttributeListImpl AttributeListImpl }

```

```

* class; in addition to supporting the updated Attributes

```

```

* interface rather than the deprecated { @link org.xml.sax.AttributeList

```

```

* AttributeList } interface, it also includes a much more efficient

```

```

* implementation using a single array rather than a set of Vectors.</p>

```

```

*

```

```

* @since SAX 2.0

```

```

* @author David Megginson

```

```

* @version 2.0.1 (sax2r2)

```

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/AttributesImpl.java

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// NO WARRANTY! This class is in the Public Domain.

/**

* Create a new instance of a class by name.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* See http://www.saxproject.org

* for further information.

* </blockquote>

*

* <p>This class contains a static method for creating an instance of a

* class from an explicit class name. It tries to use the thread's context

* ClassLoader if possible and falls back to using

* Class.forName(String). It also takes into account JDK 1.2+'s

* AccessController mechanism for performing its actions. </p>

*

* <p>This code is designed to run on JDK version 1.1 and later and compile

* on versions of Java 2 and later.</p>

*

* @author Edwin Goei, David Brownell, Neil Graham

* @version \$Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp \$

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/NewInstance.java

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/**

* Encapsulate a general SAX error or warning.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>This class can contain basic error or warning information from

* either the XML parser or the application: a parser writer or

* application writer can subclass it to provide additional

* functionality. SAX handlers may throw this exception or

```

* any exception subclassed from it.</p>
*
* <p>If the application needs to pass through other types of
* exceptions, it must wrap those exceptions in a SAXException
* or an exception derived from a SAXException.</p>
*
* <p>If the parser or application needs to include information about a
* specific location in an XML document, it should use the
* { @link org.xml.sax.SAXParseException SAXParseException } subclass.</p>
*
* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXParseException
*/

```

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXException.java

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```
// NO WARRANTY! This class is in the Public Domain.
```

```
/**
```

```
* Exception class for an unrecognized identifier.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>An XMLReader will throw this exception when it finds an
```

```
* unrecognized feature or property identifier; SAX applications and
```

```
* extensions may use this class for other, similar purposes.</p>
```

```
*
```

```
* @since SAX 2.0
```

```
* @author David Megginson,
```

```
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
```

```
* @version 2.0
```

```
* @see org.xml.sax.SAXNotSupportedException
```

```
*/
```

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotRecognizedException.java

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been placed in the public domain.

Because SAX is released to the public domain, there is no warranty

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into the public domain.

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Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/package.html

No license file was found, but licenses were detected in source scan.

/*

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* Recherche en Informatique et en Automatique, Keio University). All
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* hope that it will be useful, but WITHOUT ANY WARRANTY; without even
* the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
* PURPOSE.
* See W3C License <http://www.w3.org/Consortium/Legal/> for more details.

*/

/**

* Create a new `DOMBuilder`. The newly constructed parser may
* then be configured by means of its `setFeature` method,
* and used to parse documents by means of its `parse`
* method.
* @param mode The `mode` argument is either
* `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if
* `mode` is `MODE_SYNCHRONOUS` then the
* `DOMBuilder` that is created will operate in synchronous
* mode, if it's `MODE_ASYNCHRONOUS` then the
* `DOMBuilder` that is created will operate in
* asynchronous mode.
* @param schemaType An absolute URI representing the type of the schema
* language used during the load of a `Document` using the
* newly created `DOMBuilder`. Note that no lexical
* checking is done on the absolute URI. In order to create a
* `DOMBuilder` for any kind of schema types (i.e. the
* `DOMBuilder` will be free to use any schema found), use the value
* `null`. For W3C XML Schema, applications must use the
* value `"http://www.w3.org/2001/XMLSchema"`. For XML DTD
*, applications must use the value
* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* @return The newly created `DOMBuilder` object. This
* `DOMBuilder` is either synchronous or asynchronous
* depending on the value of the `mode` argument. By
* default, the newly created `DOMBuilder` does not contain
* a `DOMErrorHandler`, i.e. the value of the


```

* <code>errorHandler</code> is <code>>null</code>. However,
* implementations may provide a default error handler at creation
* time. In that case, the initial value of the
* <code>errorHandler</code> attribute on the new created
* <code>DOMBuilder</code> contains a reference to the default error
* handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/ls/DOMImplementationLS.java

```

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```

/**
* Basic interface for SAX (Simple API for XML) parsers.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This was the main event supplier interface for SAX1; it has
* been replaced in SAX2 by { @link org.xml.sax.XMLReader XMLReader },
* which includes Namespace support and sophisticated configurability
* and extensibility.</p>
*
* <p>All SAX1 parsers must implement this basic interface: it allows
* applications to register handlers for different types of events
* and to initiate a parse from a URI, or a character stream.</p>
*
* <p>All SAX1 parsers must also implement a zero-argument constructor
* (though other constructors are also allowed).</p>
*
* <p>SAX1 parsers are reusable but not re-entrant: the application
* may reuse a parser object (possibly with a different input source)
* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
*
* @deprecated This interface has been replaced by the SAX2
* { @link org.xml.sax.XMLReader XMLReader }
* interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0

```

```
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/
```

Found in path(s):

```
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Parser.java
```

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```
// Public Domain: no warranty.
```

```
/**
```

```
* SAX2 extension handler for DTD declaration events.
```

```
*
```

```
* <blockquote>
```

```
* <em>This module, both source code and documentation, is in the
```

```
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
```

```
* </blockquote>
```

```
*
```

```
* <p>This is an optional extension handler for SAX2 to provide
```

```
* information about DTD declarations in an XML document. XML
```

```
* readers are not required to support this handler, and this
```

```
* handler is not included in the core SAX2 distribution.</p>
```

```
*
```

```
* <p>Note that data-related DTD declarations (unparsed entities and
```

```
* notations) are already reported through the { @link
```

```
* org.xml.sax.DTDHandler DTDHandler} interface.</p>
```

```
*
```

```
* <p>If you are using the declaration handler together with a lexical
```

```
* handler, all of the events will occur between the
```

```
* { @link org.xml.sax.ext.LexicalHandler#startDTD startDTD} and the
```

```
* { @link org.xml.sax.ext.LexicalHandler#endDTD endDTD} events.</p>
```

```
*
```

```
* <p>To set the DeclHandler for an XML reader, use the
```

```
* { @link org.xml.sax.XMLReader#setProperty setProperty} method
```

```
* with the propertyId "http://xml.org/sax/properties/declaration-handler".
```

```
* If the reader does not support declaration events, it will throw a
```

```
* { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException}
```

```
* or a
```

```
* { @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException}
```

```
* when you attempt to register the handler.</p>
```

```
*
```

```
* @since 1.0
```

```
* @author David Megginson,
```

```
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
```

```
* @version 1.0
```

* @see org.xml.sax.XMLReader

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/DeclHandler.java

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/**

* Java-specific class for dynamically loading SAX parsers.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* See http://www.saxproject.org

* for further information.

* </blockquote>

*

* <p>Note: This class is designed to work with the now-deprecated

* SAX1 { @link org.xml.sax.Parser Parser } class. SAX2 applications should use

* { @link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory } instead.</p>

*

* <p>ParserFactory is not part of the platform-independent definition

* of SAX; it is an additional convenience class designed

* specifically for Java XML application writers. SAX applications

* can use the static methods in this class to allocate a SAX parser

* dynamically at run-time based either on the value of the

* `org.xml.sax.parser' system property or on a string containing the class

* name.</p>

*

* <p>Note that the application still requires an XML parser that

* implements SAX1.</p>

*

* @deprecated This class works with the deprecated

* { @link org.xml.sax.Parser Parser }

* interface.

* @since SAX 1.0

* @author David Megginson

* @version 2.0r2pre3

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-

jar/org/xml/sax/helpers/ParserFactory.java

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/*

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*

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* originally based on software copyright (c) 1999, International
* Business Machines, Inc., <http://www.apache.org>. For more
* information on the Apache Software Foundation, please see
* <http://www.apache.org/>.
*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/FilePathToURI.java

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// NO WARRANTY! This class is in the public domain.

/**

* Adapt a SAX2 XMLReader as a SAX1 Parser.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

* </blockquote>

*

* <p>This class wraps a SAX2 { @link org.xml.sax.XMLReader XMLReader }

* and makes it act as a SAX1 { @link org.xml.sax.Parser Parser }. The XMLReader

* must support a true value for the

* <http://xml.org/sax/features/namespace-prefixes> property or parsing will fail

* with a { @link org.xml.sax.SAXException SAXException }; if the XMLReader

* supports a false value for the <http://xml.org/sax/features/namespaces>

* property, that will also be used to improve efficiency.</p>

*

* @since SAX 2.0

* @author David Megginson,

* sax@megginson.com

* @version 2.0

* @see org.xml.sax.Parser

* @see org.xml.sax.XMLReader

*/

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLReaderAdapter.java

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// NO WARRANTY! This class is in the public domain.

/**

* Receive notification of the logical content of a document.

*

* <blockquote>

* This module, both source code and documentation, is in the

* Public Domain, and comes with NO WARRANTY.

```

* </blockquote>
*
* <p>This is the main interface that most SAX applications
* implement: if the application needs to be informed of basic parsing
* events, it implements this interface and registers an instance with
* the SAX parser using the { @link org.xml.sax.XMLReader#setContentHandler
* setContentHandler} method. The parser uses the instance to report
* basic document-related events like the start and end of elements
* and character data.</p>
*
* <p>The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.</p>
*
* <p>This interface is similar to the now-deprecated SAX 1.0
* DocumentHandler interface, but it adds support for Namespaces
* and for reporting skipped entities (in non-validating XML
* processors).</p>
*
* <p>Implementors should note that there is also a Java class
* { @link java.net.ContentHandler ContentHandler} in the java.net
* package; that means that it's probably a bad idea to do</p>
*
* <blockquote>
* import java.net.*;
* import org.xml.sax.*;
* </blockquote>
*
* <p>In fact, "import ...*" is usually a sign of sloppy programming
* anyway, so the user should consider this a feature rather than a
* bug.</p>
*
* @since SAX 2.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ErrorHandler
*/

```

Found in path(s):

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ContentHandler.java

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```

/**
 * SAX2 extension handler for lexical events.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This is an optional extension handler for SAX2 to provide
 * lexical information about an XML document, such as comments
 * and CDATA section boundaries; XML readers are not required to
 * support this handler, and it is not part of the core SAX2
 * distribution.</p>
 *
 * <p>The events in the lexical handler apply to the entire document,
 * not just to the document element, and all lexical handler events
 * must appear between the content handler's startDocument and
 * endDocument events.</p>
 *
 * <p>To set the LexicalHandler for an XML reader, use the
 * { @link org.xml.sax.XMLReader#setProperty setProperty } method
 * with the propertyId "http://xml.org/sax/properties/lexical-handler".
 * If the reader does not support lexical events, it will throw a
 * { @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException }
 * or a
 * { @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException }
 * when you attempt to register the handler.</p>
 *
 * @since 1.0
 * @author David Megginson,
 * <a href="mailto:sax@meggison.com">sax@meggison.com</a>
 * @version 1.0
 * @see org.xml.sax.XMLReader#setProperty
 * @see org.xml.sax.SAXNotRecognizedException
 * @see org.xml.sax.SAXNotSupportedException
 */

```

Found in path(s):

```

* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/ext/LexicalHandler.java

```

1.4 netty-codec-http 4.1.69.Final

1.4.1 Available under license :

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```

/*

```

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*/

Found in path(s):

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/HttpChunkedInput.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/HttpMessageUtil.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/HttpHeaderValues.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java

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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/HttpStatusClass.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/HttpHeaderNames.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java

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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
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image/io.netty.codec.http.native-image.properties
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jar/io/netty/handler/codec/http/cors/CorsConfig.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/cors/CorsHandler.java
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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java

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jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
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jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java
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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakeException.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/multipart/DeleteFileOnExitHook.java
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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java

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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java

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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java

* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-jar/io/netty/handler/codec/http/FullHttpResponse.java

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jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
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jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
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jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
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jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
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jar/io/netty/handler/codec/rtsp/RtspDecoder.java
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jar/io/netty/handler/codec/http/CookieUtil.java
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jar/io/netty/handler/codec/http/HttpUtil.java
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jar/io/netty/handler/codec/http/cookie/Cookie.java
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* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpClientCodec.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/package-info.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpResponse.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpMessage.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/QueryStringEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/DefaultLastHttpContent.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpRequestDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpVersion.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpObjectAggregator.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/rtsp/RtspVersions.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/Attribute.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-

jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/rtsp/RtspMethods.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpServerCodec.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpContentEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpConstants.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/MixedAttribute.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/LastHttpContent.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/spdy/package-info.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/package-info.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/rtsp/package-info.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpResponseStatus.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-

jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpContent.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/Cookie.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/FileUpload.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/package-info.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpContentDecompressor.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/HttpRequestEncoder.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java
* /opt/cola/permits/1221850592_1635490079.45/0/netty-codec-http-4-1-69-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpObject.java

1.5 spring-cloud-consul-core 3.0.4

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- * /opt/cola/permits/1222421570_1635579136.39/0/spring-cloud-consul-core-3-0-4-sources-jar/org/springframework/cloud/consul/ConsulAutoConfiguration.java
- * /opt/cola/permits/1222421570_1635579136.39/0/spring-cloud-consul-core-3-0-4-sources-jar/org/springframework/cloud/consul/ConditionalOnConsulEnabled.java
- * /opt/cola/permits/1222421570_1635579136.39/0/spring-cloud-consul-core-3-0-4-sources-jar/org/springframework/cloud/consul/ConsulProperties.java
- * /opt/cola/permits/1222421570_1635579136.39/0/spring-cloud-consul-core-3-0-4-sources-jar/org/springframework/cloud/consul/ConsulHealthIndicatorProperties.java
- * /opt/cola/permits/1222421570_1635579136.39/0/spring-cloud-consul-core-3-0-4-sources-jar/org/springframework/cloud/consul/model/SerfStatusEnum.java
- * /opt/cola/permits/1222421570_1635579136.39/0/spring-cloud-consul-core-3-0-4-sources-jar/org/springframework/cloud/consul/ConsulHealthIndicator.java
- * /opt/cola/permits/1222421570_1635579136.39/0/spring-cloud-consul-core-3-0-4-sources-jar/org/springframework/cloud/consul/ConsulEndpoint.java
- * /opt/cola/permits/1222421570_1635579136.39/0/spring-cloud-consul-core-3-0-4-sources-jar/org/springframework/cloud/consul/RetryProperties.java

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- * /opt/cola/permits/1222421570_1635579136.39/0/spring-cloud-consul-core-3-0-4-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-consul-core/pom.xml

1.6 async-http-client 2.11.0

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/StringBuilderPool.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/ThrowableUtil.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/HttpResponseStatus.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/AsyncCompletionHandlerBase.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/DefaultAsyncHttpClient.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/AsyncCompletionHandler.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/proxy/ProxyServer.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/Request.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/Response.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/AsyncHttpClient.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/channel/PerHostConnectionSemaphore.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/channel/MaxConnectionSemaphore.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/channel/NoopConnectionSemaphore.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/channel/CombinedConnectionSemaphore.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/oauth/ConsumerKey.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/request/body/multipart/InputStreamPart.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/channel/ConnectionSemaphoreFactory.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/channel/DefaultConnectionSemaphoreFactory.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/channel/InfiniteSemaphore.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/channel/ConnectionSemaphore.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/request/body/multipart/part/InputStreamMultipartPart.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/proxy/ProxyType.java
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- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/resolver/RequestHostnameResolver.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/MultipartBody.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/ssl/SslEngineFactoryBase.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/part/StringMultipartPart.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/AsyncHttpClientConfig.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/part/FileMultipartPart.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/SimpleChannelFutureListener.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/spnego/SpnegoEngineException.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/handler/intercept/ConnectSuccessInterceptor.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/part/ByteArrayMultipartPart.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/handler/intercept/Interceptors.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/handler/intercept/ResponseFiltersInterceptor.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/Assertions.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/part/MultipartPart.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/channel/ChannelState.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/request/body/NettyByteBufferBody.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/part/MessageEndMultipartPart.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/ssl/JsseSslEngineFactory.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/request/body/generator/BodyChunk.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/request/body/multipart/MultipartUtils.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/request/body/generator/PushBody.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/util/DateUtils.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/request/body/generator/QueueBasedFeedableBodyGenerator.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/ssl/DefaultSslEngineFactory.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/util/HttpConstants.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/SimpleFutureListener.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/handler/intercept/Continue100Interceptor.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/request/body/generator/BoundedQueueFeedableBodyGenerator.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/request/body/generator/FeedListener.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/DefaultRequest.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/handler/intercept/ProxyUnauthorized407Interceptor.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/handler/intercept/Unauthorized401Interceptor.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/Dsl.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/handler/intercept/Redirect30xInterceptor.java

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jar/org/asynchttpclient/netty/channel/TransportFactory.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/channel/KQueueTransportFactory.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/channel/NioTransportFactory.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/request/body/NettyBody.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/ws/WebSocketUtils.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/channel/KeepAliveStrategy.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/request/body/NettyBodyBody.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/handler/HttpHandler.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/channel/NettyConnectListener.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/HostStats.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/NettyResponseStatus.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/DiscardEvent.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/generator/FeedableBodyGenerator.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/request/body/BodyFileRegion.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/timeout/ReadTimeoutTimerTask.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-

jar/org/asynhttpclient/ClientStats.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/NettyResponse.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/NettyResponseFuture.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/request/body/NettyInputStreamBody.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/channel/ChannelPool.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/request/body/BodyChunkedInput.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/request/NettyRequest.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/timeout/RequestTimeoutTimerTask.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/timeout/TimeoutsHolder.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/handler/WebSocketHandler.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/request/body/NettyByteArrayBody.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/request/body/NettyMultipartBody.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/request/WriteProgressListener.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/request/body/NettyFileBody.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/request/body/NettyCompositeByteArrayBody.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/handler/AsyncHttpClientHandler.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/channel/NoopChannelPool.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/handler/MaxRedirectException.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/request/NettyRequestSender.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/SslEngineFactory.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/request/body/NettyDirectBody.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/timeout/TimeoutTimerTask.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/channel/Channels.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/netty/ws/NettyWebSocket.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-

jar/org/asynchttpclient/netty/channel/ChannelManager.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/request/body/generator/UnboundedQueueFeedableBodyGenerator.java
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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/DefaultAsyncHttpClientConfig.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/AsyncHandler.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/RequestBuilder.java
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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/Utf8UrlEncoder.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/request/WriteListener.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/AsyncHttpClientState.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/channel/EpollTransportFactory.java

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#
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# =====
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset ez
# application/applefile
application/applixware aw
# application/atf
# application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml atomsvc
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
# application/cals-1840

```

application/cbor
application/ccmp+xml
application/ccxml+xml ccxml
application/cdfx+xml
application/cdmi-capability cdmia
application/cdmi-container cdmic
application/cdmi-domain cdmid
application/cdmi-object cdmio
application/cdmi-queue cdmiq
application/cdni
application/cea
application/cea-2018+xml
application/cellml+xml
application/cfw
application/cms
application/cnrx+xml
application/coap-group+json
application/commonground
application/conference-info+xml
application/cpl+xml
application/csrattrs
application/csta+xml
application/cstadata+xml
application/csvm+json
application/cu-seeme cu
application/cybercash
application/dash+xml
application/dashdelta
application/davmount+xml davmount
application/dca-rft
application/dcd
application/dec-dx
application/dialog-info+xml
application/dicom
application/dii
application/dit
application/dns
application/docbook+xml dbk
application/dskpp+xml
application/dssc+der dssc
application/dssc+xml xdssc
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application/emergencycalldata.comment+xml
application/emergencycalldata.deviceinfo+xml

application/emergencycalldata.providerinfo+xml
application/emergencycalldata.serviceinfo+xml
application/emergencycalldata.subscriberinfo+xml
application/emma+xml emma
application/emotionml+xml
application/encaprtsp
application/epp+xml
application/epub+zip epub
application/eshop
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application/exi exi
application/fastinfoset
application/fastsoap
application/fdt+xml
application/fits
application/font-sfnt
application/font-tdpfr pfr
application/font-woff woff
application/framework-attributes+xml
application/gml+xml gml
application/gpx+xml gpx
application/gxf gxf
application/gzip
application/h224
application/held+xml
application/http
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application/ibe-key-request+xml
application/ibe-pkg-reply+xml
application/ibe-pp-data
application/iges
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application/index.cmd
application/index.obj
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application/index.vnd
application/inkml+xml ink inkml
application/iotp
application/ipfix ipfix
application/ipp
application/isup
application/its+xml
application/java-archive jar
application/java-serialized-object ser
application/java-vm class
application/javascript js
application/jose

application/jose+json
application/jrd+json
application/json json
application/json-patch+json
application/json-seq
application/jsonml+json jsonml
application/jwk+json
application/jwk-set+json
application/jwt
application/kpml-request+xml
application/kpml-response+xml
application/ld+json
application/link-format
application/load-control+xml
application/lost+xml lostxml
application/lostsync+xml
application/lxf
application/mac-binhex40 hqx
application/mac-compactpro cpt
application/macwriteii
application/mads+xml mads
application/marc mrc
application/marcxml+xml mrcx
application/mathematica ma nb mb
application/mathml+xml mathml
application/mathml-content+xml
application/mathml-presentation+xml
application/mbms-associated-procedure-description+xml
application/mbms-deregister+xml
application/mbms-envelope+xml
application/mbms-msk+xml
application/mbms-msk-response+xml
application/mbms-protection-description+xml
application/mbms-reception-report+xml
application/mbms-register+xml
application/mbms-register-response+xml
application/mbms-schedule+xml
application/mbms-user-service-description+xml
application/mbox mbox
application/media-policy-dataset+xml
application/media_control+xml
application/mediaservercontrol+xml mscml
application/merge-patch+json
application/metalink+xml metalink
application/metalink4+xml meta4
application/mets+xml mets
application/mf4
application/mikey

application/mods+xml mods
application/moss-keys
application/moss-signature
application/mosskey-data
application/mosskey-request
application/mp21 m21 mp21
application/mp4 mp4s
application/mpeg4-generic
application/mpeg4-iod
application/mpeg4-iod-xmt
application/mrb-consumer+xml
application/mrb-publish+xml
application/msc-ivr+xml
application/msc-mixer+xml
application/msword doc dot
application/mxf mxf
application/nasdata
application/news-checkgroups
application/news-groupinfo
application/news-transmission
application/nlsml+xml
application/nss
application/ocsp-request
application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda oda
application/odx
application/oebps-package+xml opf
application/ogg ogx
application/omdoc+xml omdoc
application/onenote onetoc onetoc2 onetmp onepkg
application/oxps oxps
application/p2p-overlay+xml
application/parityfec
application/patch-ops-error+xml xer
application/pdf pdf
application/pdx
application/pgp-encrypted pgp
application/pgp-keys
application/pgp-signature asc sig
application/pics-rules prf
application/pidf+xml
application/pidf-diff+xml
application/pkcs10 p10
application/pkcs12
application/pkcs7-mime p7m p7c
application/pkcs7-signature p7s
application/pkcs8 p8

application/pkix-attr-cert ac
application/pkix-cert cer
application/pkix-crl crl
application/pkix-pkipath pkipath
application/pkixcmp pki
application/pls+xml pls
application/poc-settings+xml
application/postscript ai eps ps
application/ppsp-tracker+json
application/problem+json
application/problem+xml
application/provenance+xml
application/prs.alvestrand.titrax-sheet
application/prs.cww cww
application/prs.hpub+zip
application/prs.nprend
application/prs.plucker
application/prs.rdf+xml-crypt
application/prs.xsf+xml
application/pskc+xml pskcxml
application/qsig
application/raptorfec
application/rdap+json
application/rdf+xml rdf
application/reginfo+xml rif
application/relax-ng-compact-syntax rnc
application/remote-printing
application/reputon+json
application/resource-lists+xml rl
application/resource-lists-diff+xml rld
application/rfc+xml
application/riscos
application/rlmi+xml
application/rls-services+xml rs
application/rpki-ghostbusters gbr
application/rpki-manifest mft
application/rpki-roa roa
application/rpki-updown
application/rsd+xml rsd
application/rss+xml rss
application/rtf rtf
application/rtploopback
application/rtx
application/samlassertion+xml
application/samlmetadata+xml
application/sbml+xml sbml
application/scaip+xml
application/scim+json

application/scvp-cv-request scq
application/scvp-cv-response scs
application/scvp-vp-request spq
application/scvp-vp-response spp
application/sdp sdp
application/sep+xml
application/sep-exi
application/session-info
application/set-payment
application/set-payment-initiation setpay
application/set-registration
application/set-registration-initiation setreg
application/sgml
application/sgml-open-catalog
application/shf+xml shf
application/sieve
application/simple-filter+xml
application/simple-message-summary
application/simplesymbolcontainer
application/slate
application/smil
application/smil+xml smi smil
application/smpite336m
application/soap+fastinfoset
application/soap+xml
application/sparql-query rq
application/sparql-results+xml srx
application/spirits-event+xml
application/sql
application/srgs gram
application/srgs+xml grxml
application/sru+xml sru
application/ssdl+xml ssdl
application/ssml+xml ssml
application/tamp-apex-update
application/tamp-apex-update-confirm
application/tamp-community-update
application/tamp-community-update-confirm
application/tamp-error
application/tamp-sequence-adjust
application/tamp-sequence-adjust-confirm
application/tamp-status-query
application/tamp-status-response
application/tamp-update
application/tamp-update-confirm
application/tei+xml tei teicorpus
application/thraud+xml tfi
application/timestamp-query

application/timestamp-reply
application/timestamped-data tsd
application/ttml+xml
application/tve-trigger
application/ulpfec
application/urc-grpsheet+xml
application/urc-ressheet+xml
application/urc-targetdesc+xml
application/urc-uisocketdesc+xml
application/vcard+json
application/vcard+xml
application/vemmi
application/vividence.scriptfile
application/vnd.3gpp-prose+xml
application/vnd.3gpp-prose-pc3ch+xml
application/vnd.3gpp.access-transfer-events+xml
application/vnd.3gpp.bsf+xml
application/vnd.3gpp.mid-call+xml
application/vnd.3gpp.pic-bw-large plb
application/vnd.3gpp.pic-bw-small psb
application/vnd.3gpp.pic-bw-var pvb
application/vnd.3gpp.sms
application/vnd.3gpp.srvcc-ext+xml
application/vnd.3gpp.srvcc-info+xml
application/vnd.3gpp.state-and-event-info+xml
application/vnd.3gpp.ussd+xml
application/vnd.3gpp2.bcmsginfo+xml
application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap tcap
application/vnd.3m.post-it-notes pwn
application/vnd.accpac.simply.aso aso
application/vnd.accpac.simply.imp imp
application/vnd.acucobol acu
application/vnd.acucorp atc acutc
application/vnd.adobe.air-application-installer-package+zip air
application/vnd.adobe.flash.movie
application/vnd.adobe.formscentral.fcdt fcdt
application/vnd.adobe.fxp fxp fxpl
application/vnd.adobe.partial-upload
application/vnd.adobe.xdp+xml xdp
application/vnd.adobe.xfdf xfdf
application/vnd.aether.imp
application/vnd.ah-barcode
application/vnd.ahead.space ahead
application/vnd.airzip.filesecure.azf azf
application/vnd.airzip.filesecure.azs azs
application/vnd.amazon.ebook azw
application/vnd.americandynamics.acc acc

application/vnd.amiga.ami ami
application/vnd.amundsen.maze+xml
application/vnd.android.package-archive apk
application/vnd.anki
application/vnd.anser-web-certificate-issue-initiation cii
application/vnd.anser-web-funds-transfer-initiation fti
application/vnd.antix.game-component atx
application/vnd.apache.thrift.binary
application/vnd.apache.thrift.compact
application/vnd.apache.thrift.json
application/vnd.api+json
application/vnd.apple.installer+xml mpkg
application/vnd.apple.mpegurl m3u8
application/vnd.arastra.swi
application/vnd.aristanetworks.swi swi
application/vnd.artsquare
application/vnd.astraea-software.iota iota
application/vnd.audiograph aep
application/vnd.autopackage
application/vnd.avistar+xml
application/vnd.balsamiq.bmml+xml
application/vnd.balsamiq.bmpr
application/vnd.bekitzur-stech+json
application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass mpm
application/vnd.bluetooth.ep.oob
application/vnd.bluetooth.le.oob
application/vnd.bmi bmi
application/vnd.businessobjects rep
application/vnd.cab-jscript
application/vnd.canon-cpdl
application/vnd.canon-lips
application/vnd.cendio.thinlinc.clientconf
application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml cdxml
application/vnd.chipnuts.karaoke-mmd mmd
application/vnd.cinderella cdy
application/vnd.cirpack.isdn-ext
application/vnd.citationstyles.style+xml
application/vnd.claymore cla
application/vnd.cloanto.rp9 rp9
application/vnd.clonk.c4group c4g c4d c4f c4p c4u
application/vnd.cluetrust.cartomobile-config c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
application/vnd.coffeescript
application/vnd.collection+json
application/vnd.collection.doc+json
application/vnd.collection.next+json

```
# application/vnd.commerce-battelle
application/vnd.commonspace csp
application/vnd.contact.cmsg cdbcmsg
application/vnd.cosmocaller cmc
application/vnd.crick.clicker clkx
application/vnd.crick.clicker.keyboard clkk
application/vnd.crick.clicker.palette clkp
application/vnd.crick.clicker.template clkt
application/vnd.crick.clicker.wordbank clkw
application/vnd.criticaltools.wbs+xml wbs
application/vnd.ctc-posml pml
# application/vnd.ctct.ws+xml
# application/vnd.cups-pdf
# application/vnd.cups-postscript
application/vnd.cups-ppd ppd
# application/vnd.cups-raster
# application/vnd.cups-raw
# application/vnd.curl
application/vnd.curl.car car
application/vnd.curl.pcurl pcurl
# application/vnd.cyan.dean.root+xml
# application/vnd.cybank
application/vnd.dart dart
application/vnd.data-vision.rdz rdz
# application/vnd.debian.binary-package
application/vnd.dece.data uvf uvvf uvd uvvd
application/vnd.dece.ttml+xml uvt uvvt
application/vnd.dece.unspecified uvx uvvx
application/vnd.dece.zip uvz uvvz
application/vnd.denovo.fcselayout-link fe_launch
# application/vnd.desmume.movie
# application/vnd.dir-bi.plate-dl-nosuffix
# application/vnd.dm.delegation+xml
application/vnd.dna dna
# application/vnd.document+json
application/vnd.dolby.mlp mlp
# application/vnd.dolby.mobile.1
# application/vnd.dolby.mobile.2
# application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph dpg
application/vnd.dreamfactory dfac
# application/vnd.drive+json
application/vnd.ds-keypoint kpxx
# application/vnd.dtg.local
# application/vnd.dtg.local.flash
# application/vnd.dtg.local.html
application/vnd.dvb.ait ait
# application/vnd.dvb.dvbj
```

```
# application/vnd.dvb.esgcontainer
# application/vnd.dvb.ipdcdfnotifaccess
# application/vnd.dvb.ipdcesgaccess
# application/vnd.dvb.ipdcesgaccess2
# application/vnd.dvb.ipdcesgpdd
# application/vnd.dvb.ipdcroaming
# application/vnd.dvb.iptv.alfec-base
# application/vnd.dvb.iptv.alfec-enhancement
# application/vnd.dvb.notif-aggregate-root+xml
# application/vnd.dvb.notif-container+xml
# application/vnd.dvb.notif-generic+xml
# application/vnd.dvb.notif-ia-msglist+xml
# application/vnd.dvb.notif-ia-registration-request+xml
# application/vnd.dvb.notif-ia-registration-response+xml
# application/vnd.dvb.notif-init+xml
# application/vnd.dvb.pfr
application/vnd.dvb.service svc
# application/vnd.dxr
application/vnd.dynageo geo
# application/vnd.dzr
# application/vnd.easykaraoke.cdgdownload
# application/vnd.ecdis-update
application/vnd.ecowin.chart mag
# application/vnd.ecowin.filerequest
# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
# application/vnd.enphase.envoy
# application/vnd.eprints.data+xml
application/vnd.epson.esf esf
application/vnd.epson.msf msf
application/vnd.epson.quickanime qam
application/vnd.epson.salt slt
application/vnd.epson.ssf ssf
# application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml es3 et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
# application/vnd.etsi.iptvsad-cod+xml
```

```
# application/vnd.etsi.iptvsad-npvr+xml
# application/vnd.etsi.iptvservice+xml
# application/vnd.etsi.iptvsync+xml
# application/vnd.etsi.iptvueprofile+xml
# application/vnd.etsi.mcid+xml
# application/vnd.etsi.mheg5
# application/vnd.etsi.overload-control-policy-dataset+xml
# application/vnd.etsi.pstn+xml
# application/vnd.etsi.sci+xml
# application/vnd.etsi.simservs+xml
# application/vnd.etsi.timestamp-token
# application/vnd.etsi.tsl+xml
# application/vnd.etsi.tsl.der
# application/vnd.eudora.data
application/vnd.ezpix-album ez2
application/vnd.ezpix-package ez3
# application/vnd.f-secure.mobile
# application/vnd.fastcopy-disk-image
application/vnd.fdf fdf
application/vnd.fdsn.mseed mseed
application/vnd.fdsn.seed seed dataless
# application/vnd.ffmpeg
# application/vnd.filmit.zfc
# application/vnd.fints
# application/vnd.firemonkeys.cloudcell
application/vnd.flographit gph
application/vnd.fluxtime.clip ftc
# application/vnd.font-fontforge-sfd
application/vnd.frameMaker fm frame maker book
application/vnd.frogans.fnc fnc
application/vnd.frogans.ltf ltf
application/vnd.fsc.weblaunch fsc
application/vnd.fujitsu.oasys oas
application/vnd.fujitsu.oasys2 oa2
application/vnd.fujitsu.oasys3 oa3
application/vnd.fujitsu.oasysgp fg5
application/vnd.fujitsu.oasysprs bh2
# application/vnd.fujixerox.art-ex
# application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd ddd
application/vnd.fujixerox.docuworks xdw
application/vnd.fujixerox.docuworks.binder xbd
# application/vnd.fujixerox.docuworks.container
# application/vnd.fujixerox.hbpl
# application/vnd.fut-misnet
application/vnd.fuzzysheet fzs
application/vnd.genomatix.tuxedo txd
# application/vnd.geo+json
```

application/vnd.geocube+xml
application/vnd.geogebra.file ggb
application/vnd.geogebra.tool ggt
application/vnd.geometry-explorer gex gre
application/vnd.geonext gxt
application/vnd.geoplan g2w
application/vnd.geospace g3w
application/vnd.gerber
application/vnd.globalplatform.card-content-mgt
application/vnd.globalplatform.card-content-mgt-response
application/vnd.gmx gmx
application/vnd.google-earth.kml+xml kml
application/vnd.google-earth.kmz kmz
application/vnd.gov.sk.e-form+xml
application/vnd.gov.sk.e-form+zip
application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq gqf gqs
application/vnd.gridmp
application/vnd.groove-account gac
application/vnd.groove-help ghf
application/vnd.groove-identity-message gim
application/vnd.groove-injector grv
application/vnd.groove-tool-message gtm
application/vnd.groove-tool-template tpl
application/vnd.groove-vcard vcg
application/vnd.hal+json
application/vnd.hal+xml hal
application/vnd.handheld-entertainment+xml zmm
application/vnd.hbci hbci
application/vnd.hcl-bireports
application/vnd.hdt
application/vnd.heroku+json
application/vnd.hhe.lesson-player les
application/vnd.hp-hpgl hpgl
application/vnd.hp-hpid hpid
application/vnd.hp-hps hps
application/vnd.hp-jlyt jlt
application/vnd.hp-pcl pcl
application/vnd.hp-pclxl pclxl
application/vnd.httpphone
application/vnd.hydrostatix.sof-data sfd-hdstx
application/vnd.hyperdrive+json
application/vnd.hzn-3d-crossword
application/vnd.ibm.afplinedata
application/vnd.ibm.electronic-media
application/vnd.ibm.minipay mpy
application/vnd.ibm.modcap afp listafp list3820
application/vnd.ibm.rights-management irm

application/vnd.ibm.secure-container sc
application/vnd.iccprofile icc icm
application/vnd.ieee.1905
application/vnd.igloader igl
application/vnd.immervision-ivp ivp
application/vnd.immervision-ivu ivu
application/vnd.ims.imsccv1p1
application/vnd.ims.imsccv1p2
application/vnd.ims.imsccv1p3
application/vnd.ims.lis.v2.result+json
application/vnd.ims.lti.v2.toolconsumerprofile+json
application/vnd.ims.lti.v2.toolproxy+json
application/vnd.ims.lti.v2.toolproxy.id+json
application/vnd.ims.lti.v2.toolsettings+json
application/vnd.ims.lti.v2.toolsettings.simple+json
application/vnd.informedcontrol.rms+xml
application/vnd.informix-visionary
application/vnd.infotech.project
application/vnd.infotech.project+xml
application/vnd.innopath.wamp.notification
application/vnd.insors.igm igm
application/vnd.intercon.formnet xpw xpx
application/vnd.intergeo i2g
application/vnd.intertrust.digibox
application/vnd.intertrust.nncp
application/vnd.intu.qbo qbo
application/vnd.intu.qfx qfx
application/vnd.iptc.g2.catalogitem+xml
application/vnd.iptc.g2.conceptitem+xml
application/vnd.iptc.g2.knowledgeitem+xml
application/vnd.iptc.g2.newsitem+xml
application/vnd.iptc.g2.newsmessage+xml
application/vnd.iptc.g2.packageitem+xml
application/vnd.iptc.g2.planningitem+xml
application/vnd.ipunplugged.rcprofile rcprofile
application/vnd.irepository.package+xml irp
application/vnd.is-xpr xpr
application/vnd.isac.fcs fcs
application/vnd.jam jam
application/vnd.japannet-directory-service
application/vnd.japannet-jpnstore-wakeup
application/vnd.japannet-payment-wakeup
application/vnd.japannet-registration
application/vnd.japannet-registration-wakeup
application/vnd.japannet-setstore-wakeup
application/vnd.japannet-verification
application/vnd.japannet-verification-wakeup
application/vnd.jcp.javame.midlet-rms rms

application/vnd.jisp jisp
application/vnd.joost.joda-archive joda
application/vnd.jsk.isdn-ngn
application/vnd.kahootz ktz ktr
application/vnd.kde.karbon karbon
application/vnd.kde.kchart chrt
application/vnd.kde.kformula kfo
application/vnd.kde.kivio flw
application/vnd.kde.kontour kon
application/vnd.kde.kpresenter kpr kpt
application/vnd.kde.kspread ksp
application/vnd.kde.kword kwd kwt
application/vnd.kenameaapp htke
application/vnd.kidspiration kia
application/vnd.kinar kne knp
application/vnd.koan skp skd skt skm
application/vnd.kodak-descriptor sse
application/vnd.las.las+xml lasxml
application/vnd.liberty-request+xml
application/vnd.llamagraphics.life-balance.desktop lbd
application/vnd.llamagraphics.life-balance.exchange+xml lbe
application/vnd.lotus-1-2-3 123
application/vnd.lotus-approach apr
application/vnd.lotus-freelance pre
application/vnd.lotus-notes nsf
application/vnd.lotus-organizer org
application/vnd.lotus-screencam scm
application/vnd.lotus-wordpro lwp
application/vnd.macports.portpkg portpkg
application/vnd.mapbox-vector-tile
application/vnd.marlin.drm.actiontoken+xml
application/vnd.marlin.drm.conftoken+xml
application/vnd.marlin.drm.license+xml
application/vnd.marlin.drm.mdcf
application/vnd.mason+json
application/vnd.maxmind.maxmind-db
application/vnd.mcd mcd
application/vnd.medcalldata mc1
application/vnd.mediastation.cdkey cdkey
application/vnd.meridian-slideshow
application/vnd.mfer mwf
application/vnd.mfmp mfm
application/vnd.micro+json
application/vnd.micrografx.flo flo
application/vnd.micrografx.igx igx
application/vnd.microsoft.portable-executable
application/vnd.miele+json
application/vnd.mif mif

```
# application/vnd.minisoft-hp3000-save
# application/vnd.mitsubishi.misty-guard.trustweb
application/vnd.mobius.daf daf
application/vnd.mobius.dis dis
application/vnd.mobius.mbk mbk
application/vnd.mobius.mqy mqy
application/vnd.mobius.msl msl
application/vnd.mobius.plc plc
application/vnd.mobius.txf txf
application/vnd.mophun.application mpn
application/vnd.mophun.certificate mpc
# application/vnd.motorola.flexsuite
# application/vnd.motorola.flexsuite.adi
# application/vnd.motorola.flexsuite.fis
# application/vnd.motorola.flexsuite.gotap
# application/vnd.motorola.flexsuite.kmr
# application/vnd.motorola.flexsuite.ttc
# application/vnd.motorola.flexsuite.wem
# application/vnd.motorola.iprm
application/vnd.mozilla.xul+xml xul
# application/vnd.ms-3mfdocument
application/vnd.ms-artgalry cil
# application/vnd.ms-asf
application/vnd.ms-cab-compressed cab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel xls xlm xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12 xlam
application/vnd.ms-excel.sheet.binary.macroenabled.12 xlsb
application/vnd.ms-excel.sheet.macroenabled.12 xlsm
application/vnd.ms-excel.template.macroenabled.12 xltm
application/vnd.ms-fontobject eot
application/vnd.ms-htmlhelp chm
application/vnd.ms-ims ims
application/vnd.ms-lrm lrm
# application/vnd.ms-office.activex+xml
application/vnd.ms-officetheme thmx
# application/vnd.ms-opentype
# application/vnd.ms-package.obfuscated-opentype
application/vnd.ms-pki.seccat cat
application/vnd.ms-pki.stl stl
# application/vnd.ms-playready.initiator+xml
application/vnd.ms-powerpoint ppt pps pot
application/vnd.ms-powerpoint.addin.macroenabled.12 ppam
application/vnd.ms-powerpoint.presentation.macroenabled.12 pptm
application/vnd.ms-powerpoint.slide.macroenabled.12 sldm
application/vnd.ms-powerpoint.slideshow.macroenabled.12 ppsm
application/vnd.ms-powerpoint.template.macroenabled.12 potm
# application/vnd.ms-printdevicecapabilities+xml
```

application/vnd.ms-printing.printticket+xml
application/vnd.ms-printschematicket+xml
application/vnd.ms-project mpp mpt
application/vnd.ms-tnef
application/vnd.ms-windows.devicepairing
application/vnd.ms-windows.nwprinting.oob
application/vnd.ms-windows.printerpairing
application/vnd.ms-windows.wsd.oob
application/vnd.ms-wmdrm.lic-chlg-req
application/vnd.ms-wmdrm.lic-resp
application/vnd.ms-wmdrm.meter-chlg-req
application/vnd.ms-wmdrm.meter-resp
application/vnd.ms-word.document.macroenabled.12 docm
application/vnd.ms-word.template.macroenabled.12 dotm
application/vnd.ms-works wps wks wcm wdb
application/vnd.ms-wpl wpl
application/vnd.ms-xpsdocument xps
application/vnd.msa-disk-image
application/vnd.mseq mseq
application/vnd.msign
application/vnd.multiad.creator
application/vnd.multiad.creator.cif
application/vnd.music-niff
application/vnd.musician mus
application/vnd.muvee.style msty
application/vnd.mynfc taglet
application/vnd.ncd.control
application/vnd.ncd.reference
application/vnd.nervana
application/vnd.netfpx
application/vnd.neurolanguage.nlu nlu
application/vnd.nintendo.nitro.rom
application/vnd.nintendo.snes.rom
application/vnd.nitf ntf nitf
application/vnd.noblenet-directory nnd
application/vnd.noblenet-sealer nns
application/vnd.noblenet-web nnw
application/vnd.nokia.catalogs
application/vnd.nokia.conml+wbxml
application/vnd.nokia.conml+xml
application/vnd.nokia.iptv.config+xml
application/vnd.nokia.isds-radio-presets
application/vnd.nokia.landmark+wbxml
application/vnd.nokia.landmark+xml
application/vnd.nokia.landmarkcollection+xml
application/vnd.nokia.n-gage.ac+xml
application/vnd.nokia.n-gage.data ngdat
application/vnd.nokia.n-gage.symbian.install n-gage

```
# application/vnd.nokia.ncd
# application/vnd.nokia.pcd+wxml
# application/vnd.nokia.pcd+xml
application/vnd.nokia.radio-preset rpst
application/vnd.nokia.radio-presets rpss
application/vnd.novadigm.edm edm
application/vnd.novadigm.edx edx
application/vnd.novadigm.ext ext
# application/vnd.ntt-local.content-share
# application/vnd.ntt-local.file-transfer
# application/vnd.ntt-local.ogw_remote-access
# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
application/vnd.oasis.opendocument.chart odc
application/vnd.oasis.opendocument.chart-template otc
application/vnd.oasis.opendocument.database odb
application/vnd.oasis.opendocument.formula odf
application/vnd.oasis.opendocument.formula-template odft
application/vnd.oasis.opendocument.graphics odg
application/vnd.oasis.opendocument.graphics-template otg
application/vnd.oasis.opendocument.image odi
application/vnd.oasis.opendocument.image-template oti
application/vnd.oasis.opendocument.presentation odp
application/vnd.oasis.opendocument.presentation-template otp
application/vnd.oasis.opendocument.spreadsheet ods
application/vnd.oasis.opendocument.spreadsheet-template ots
application/vnd.oasis.opendocument.text odt
application/vnd.oasis.opendocument.text-master odm
application/vnd.oasis.opendocument.text-template ott
application/vnd.oasis.opendocument.text-web oth
# application/vnd.obn
# application/vnd.ofn.110n+json
# application/vnd.oipf.contentaccessdownload+xml
# application/vnd.oipf.contentaccessstreaming+xml
# application/vnd.oipf.cspg-hexbinary
# application/vnd.oipf.dae.svg+xml
# application/vnd.oipf.dae.xhtml+xml
# application/vnd.oipf.mippvcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.ueprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugar xo
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
# application/vnd.oma.bcast.associated-procedure-parameter+xml
```

application/vnd.oma.bcast.drm-trigger+xml
application/vnd.oma.bcast.imd+xml
application/vnd.oma.bcast.ltkm
application/vnd.oma.bcast.notification+xml
application/vnd.oma.bcast.provisioningtrigger
application/vnd.oma.bcast.sgboot
application/vnd.oma.bcast.sgdd+xml
application/vnd.oma.bcast.sgdu
application/vnd.oma.bcast.simple-symbol-container
application/vnd.oma.bcast.smartcard-trigger+xml
application/vnd.oma.bcast.sprov+xml
application/vnd.oma.bcast.stkm
application/vnd.oma.cab-address-book+xml
application/vnd.oma.cab-feature-handler+xml
application/vnd.oma.cab-pcc+xml
application/vnd.oma.cab-sub-invite+xml
application/vnd.oma.cab-user-prefs+xml
application/vnd.oma.dcd
application/vnd.oma.dcdc
application/vnd.oma.dd2+xml dd2
application/vnd.oma.drm.risd+xml
application/vnd.oma.group-usage-list+xml
application/vnd.oma.pal+xml
application/vnd.oma.poc.detailed-progress-report+xml
application/vnd.oma.poc.final-report+xml
application/vnd.oma.poc.groups+xml
application/vnd.oma.poc.invocation-descriptor+xml
application/vnd.oma.poc.optimized-progress-report+xml
application/vnd.oma.push
application/vnd.oma.scidm.messages+xml
application/vnd.oma.xcap-directory+xml
application/vnd.omads-email+xml
application/vnd.omads-file+xml
application/vnd.omads-folder+xml
application/vnd.omaloc-supl-init
application/vnd.openblox.game+xml
application/vnd.openblox.game-binary
application/vnd.openeye.oeb
application/vnd.openofficeorg.extension oxt
application/vnd.openxmlformats-officedocument.custom-properties+xml
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application/vnd.openxmlformats-officedocument.drawingml.chartshapes+xml
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application/vnd.openxmlformats-officedocument.drawingml.diagramlayout+xml
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application/vnd.openxmlformats-officedocument.presentationml.notesslide+xml
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application/vnd.openxmlformats-officedocument.presentationml.presentation.main+xml
application/vnd.openxmlformats-officedocument.presentationml.presprops+xml
application/vnd.openxmlformats-officedocument.presentationml.slide sldx
application/vnd.openxmlformats-officedocument.presentationml.slide+xml
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application/vnd.openxmlformats-officedocument.presentationml.slideshow.main+xml
application/vnd.openxmlformats-officedocument.presentationml.slideupdateinfo+xml
application/vnd.openxmlformats-officedocument.presentationml.tablestyles+xml
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application/vnd.openxmlformats-officedocument.presentationml.template.main+xml
application/vnd.openxmlformats-officedocument.presentationml.viewprops+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.chartsheet+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.comments+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.sharedstrings+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet xlsx
application/vnd.openxmlformats-officedocument.spreadsheetml.sheet.main+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.sheetmetadata+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.styles+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.table+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.tablesinglecells+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.template.main+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.usernames+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.volatiledependencies+xml
application/vnd.openxmlformats-officedocument.spreadsheetml.worksheet+xml
application/vnd.openxmlformats-officedocument.theme+xml
application/vnd.openxmlformats-officedocument.themeoverride+xml
application/vnd.openxmlformats-officedocument.vmldrawing

application/vnd.openxmlformats-officedocument.wordprocessingml.comments+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document docx
application/vnd.openxmlformats-officedocument.wordprocessingml.document.glossary+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.document.main+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.endnotes+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.fonttable+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.footer+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.footnotes+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.numbering+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.settings+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.styles+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.template dotx
application/vnd.openxmlformats-officedocument.wordprocessingml.template.main+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.websettings+xml
application/vnd.openxmlformats-package.core-properties+xml
application/vnd.openxmlformats-package.digital-signature-xmlsignature+xml
application/vnd.openxmlformats-package.relationships+xml
application/vnd.oracle.resource+json
application/vnd.orange.indata
application/vnd.osa.netdeploy
application/vnd.osgeo.mapguide.package mgp
application/vnd.osgi.bundle
application/vnd.osgi.dp dp
application/vnd.osgi.subsystem esa
application/vnd.otp.ct-kip+xml
application/vnd.oxli.countgraph
application/vnd.pagerduty+json
application/vnd.palm pdb pqa oprc
application/vnd.panoply
application/vnd.paos.xml
application/vnd.pawafile paw
application/vnd.pcos
application/vnd.pg.format str
application/vnd.pg.asasli ei6
application/vnd.piacess.application-licence
application/vnd.picsel efif
application/vnd.pmi.widget wg
application/vnd.poc.group-advertisement+xml
application/vnd.pocketlearn plf
application/vnd.powerbuilder6 pbd
application/vnd.powerbuilder6-s
application/vnd.powerbuilder7
application/vnd.powerbuilder7-s
application/vnd.powerbuilder75
application/vnd.powerbuilder75-s
application/vnd.preminet
application/vnd.previewsystems.box box
application/vnd.proteus.magazine mgz

application/vnd.publishare-delta-tree qps
application/vnd.pvi.ptid1 ptid
application/vnd.pwg-multiplexed
application/vnd.pwg-xhtml-print+xml
application/vnd.qualcomm.brew-app-res
application/vnd.quark.quarkxpress qxd qxt qwd qwt qxl qxb
application/vnd.quobject-quoxdocument
application/vnd.radisys.moml+xml
application/vnd.radisys.msml+xml
application/vnd.radisys.msml-audit+xml
application/vnd.radisys.msml-audit-conf+xml
application/vnd.radisys.msml-audit-conn+xml
application/vnd.radisys.msml-audit-dialog+xml
application/vnd.radisys.msml-audit-stream+xml
application/vnd.radisys.msml-conf+xml
application/vnd.radisys.msml-dialog+xml
application/vnd.radisys.msml-dialog-base+xml
application/vnd.radisys.msml-dialog-fax-detect+xml
application/vnd.radisys.msml-dialog-fax-sendrecv+xml
application/vnd.radisys.msml-dialog-group+xml
application/vnd.radisys.msml-dialog-speech+xml
application/vnd.radisys.msml-dialog-transform+xml
application/vnd.rainstor.data
application/vnd.rapid
application/vnd.realvnc.bed bed
application/vnd.recordare.musicxml mxl
application/vnd.recordare.musicxml+xml musicxml
application/vnd.renlearn.rlprint
application/vnd.rig.cryptonote cryptonote
application/vnd.rim.cod cod
application/vnd.rn-realmedia rm
application/vnd.rn-realmedia-vbr rmvb
application/vnd.route66.link66+xml link66
application/vnd.rs-274x
application/vnd.ruckus.download
application/vnd.s3sms
application/vnd.sailingtracker.track st
application/vnd.sbm.cid
application/vnd.sbm.mid2
application/vnd.scribus
application/vnd.sealed.3df
application/vnd.sealed.csf
application/vnd.sealed.doc
application/vnd.sealed.eml
application/vnd.sealed.mht
application/vnd.sealed.net
application/vnd.sealed.ppt
application/vnd.sealed.tiff

application/vnd.sealed.xls
application/vnd.sealedmedia.softseal.html
application/vnd.sealedmedia.softseal.pdf
application/vnd.seemail see
application/vnd.sema sema
application/vnd.semd semd
application/vnd.semf semf
application/vnd.shana.informed.formdata ifm
application/vnd.shana.informed.formtemplate itp
application/vnd.shana.informed.interchange iif
application/vnd.shana.informed.package ipk
application/vnd.simtech-mindmapper twd twds
application/vnd.siren+json
application/vnd.smaf mmf
application/vnd.smart.notebook
application/vnd.smart.teacher teacher
application/vnd.software602.filler.form+xml
application/vnd.software602.filler.form-xml-zip
application/vnd.solent.sdkm+xml sdkm sdkd
application/vnd.spotfire.dxp dxp
application/vnd.spotfire.sfs sfs
application/vnd.sss-cod
application/vnd.sss-dtf
application/vnd.sss-ntf
application/vnd.stardivision.calc sdc
application/vnd.stardivision.draw sda
application/vnd.stardivision.impress sdd
application/vnd.stardivision.math smf
application/vnd.stardivision.writer sdw vor
application/vnd.stardivision.writer-global sgl
application/vnd.stepmania.package smzip
application/vnd.stepmania.stepchart sm
application/vnd.street-stream
application/vnd.sun.wadl+xml
application/vnd.sun.xml.calc sxc
application/vnd.sun.xml.calc.template stc
application/vnd.sun.xml.draw sxd
application/vnd.sun.xml.draw.template std
application/vnd.sun.xml.impress sxi
application/vnd.sun.xml.impress.template sti
application/vnd.sun.xml.math sxm
application/vnd.sun.xml.writer sxw
application/vnd.sun.xml.writer.global sxcg
application/vnd.sun.xml.writer.template stw
application/vnd.sus-calendar sus susp
application/vnd.svd svd
application/vnd.swiftview-ics
application/vnd.symbian.install sis sisx

application/vnd.syncml+xml xsm
application/vnd.syncml.dm+wbxml bdm
application/vnd.syncml.dm+xml xdm
application/vnd.syncml.dm.notification
application/vnd.syncml.dmddf+wbxml
application/vnd.syncml.dmddf+xml
application/vnd.syncml.dmtnds+wbxml
application/vnd.syncml.dmtnds+xml
application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap pcap cap dmp
application/vnd.tmd.mediaflex.api+xml
application/vnd.tml
application/vnd.tmobile-livetv tmo
application/vnd.trid.tpt tpt
application/vnd.triscape.mxs mxs
application/vnd.trueapp tra
application/vnd.truedoc
application/vnd.ubisoft.webplayer
application/vnd.ufdl ufd ufdl
application/vnd.uiq.theme utz
application/vnd.umajin umj
application/vnd.unity unityweb
application/vnd.uoml+xml uoml
application/vnd.uplanet.alert
application/vnd.uplanet.alert-wbxml
application/vnd.uplanet.bearer-choice
application/vnd.uplanet.bearer-choice-wbxml
application/vnd.uplanet.cacheop
application/vnd.uplanet.cacheop-wbxml
application/vnd.uplanet.channel
application/vnd.uplanet.channel-wbxml
application/vnd.uplanet.list
application/vnd.uplanet.list-wbxml
application/vnd.uplanet.listcmd
application/vnd.uplanet.listcmd-wbxml
application/vnd.uplanet.signal
application/vnd.uri-map
application/vnd.valve.source.material
application/vnd.vcx vcx
application/vnd.vd-study
application/vnd.vectorworks
application/vnd.verimatrix.vcas
application/vnd.vidsoft.vidconference
application/vnd.visio vsd vst vss vsw
application/vnd.visionary vis
application/vnd.vividence.scriptfile
application/vnd.vsf vsf

```
# application/vnd.wap.sic
# application/vnd.wap.slc
application/vnd.wap.wbxml wbxml
application/vnd.wap.wmlc wmlc
application/vnd.wap.wmlscriptc wmlsc
application/vnd.webturbo wtb
# application/vnd.wfa.p2p
# application/vnd.wfa.wsc
# application/vnd.windows.devicepairing
# application/vnd.wmc
# application/vnd.wmf.bootstrap
# application/vnd.wolfram.mathematica
# application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player nbp
application/vnd.wordperfect wpd
application/vnd.wqd wqd
# application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf stf
# application/vnd.wv.csp+wbxml
# application/vnd.wv.csp+xml
# application/vnd.wv.ssp+xml
# application/vnd.xacml+json
application/vnd.xara xar
application/vnd.xfdl xfdl
# application/vnd.xfdl.webform
# application/vnd.xmi+xml
# application/vnd.xmpie.cpkg
# application/vnd.xmpie.dpkg
# application/vnd.xmpie.plan
# application/vnd.xmpie.ppkg
# application/vnd.xmpie.xlim
application/vnd.yamaha.hv-dic hvd
application/vnd.yamaha.hv-script hvs
application/vnd.yamaha.hv-voice hvp
application/vnd.yamaha.openscoreformat osf
application/vnd.yamaha.openscoreformat.osfpvg+xml osfpvg
# application/vnd.yamaha.remote-setup
application/vnd.yamaha.smaf-audio saf
application/vnd.yamaha.smaf-phrase spf
# application/vnd.yamaha.through-ngn
# application/vnd.yamaha.tunnel-udpencap
# application/vnd.yaoweme
application/vnd.yellowriver-custom-menu cmp
application/vnd.zul zir zirz
application/vnd.zzazz.deck+xml zaz
application/voicexml+xml vxml
# application/vq-rtcpvr
# application/watcherinfo+xml
```

application/whoispp-query
application/whoispp-response
application/widget wgt
application/winhelp hlp
application/wita
application/wordperfect5.1
application/wsdl+xml wsdl
application/wspolicy+xml wspolicy
application/x-7z-compressed 7z
application/x-abiword abw
application/x-ace-compressed ace
application/x-amf
application/x-apple-diskimage dmg
application/x-authorware-bin aab x32 u32 vox
application/x-authorware-map aam
application/x-authorware-seg aas
application/x-bcpio bcpio
application/x-bittorrent torrent
application/x-blorb blb blorb
application/x-bzip bz
application/x-bzip2 bz2 boz
application/x-cbr cbr cba cbt cbz cb7
application/x-cdlink vcd
application/x-cfs-compressed cfs
application/x-chat chat
application/x-chess-pgn pgn
application/x-compress
application/x-conference nsc
application/x-cpio cpio
application/x-csh csh
application/x-debian-package deb udeb
application/x-dgc-compressed dgc
application/x-director dir dcr dxr cst cct ext w3d fgd swa
application/x-doom wad
application/x-dtbncx+xml ncx
application/x-dtbook+xml dtb
application/x-dtbresource+xml res
application/x-dvi dvi
application/x-envoy evy
application/x-eva eva
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application/x-font-pcf pcf

application/x-font-snf snf
application/x-font-speedo
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application/x-font-ttf ttf ttc
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application/x-font-vfont
application/x-freearc arc
application/x-futuresplash spl
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application/x-glulx ulx
application/x-gnumeric gnumeric
application/x-gramps-xml gramps
application/x-gtar gtar
application/x-gzip
application/x-hdf hdf
application/x-install-instructions install
application/x-iso9660-image iso
application/x-java-jnlp-file jnlp
application/x-latex latex
application/x-lzh-compressed lzh lha
application/x-mie mie
application/x-mobipocket-ebook prc mobi
application/x-ms-application application
application/x-ms-shortcut lnk
application/x-ms-wmd wmd
application/x-ms-wmz wmz
application/x-ms-xbap xbap
application/x-msaccess mdb
application/x-msbinder obd
application/x-mscardfile crd
application/x-msclip clp
application/x-msdownload exe dll com bat msi
application/x-msmediaview mvb m13 m14
application/x-msmetafile wmf wmz emf emz
application/x-msmoney mny
application/x-mspublisher pub
application/x-msschedule scd
application/x-msterminal trm
application/x-mswrite wri
application/x-netcdf nc cdf
application/x-nzb nzb
application/x-pkcs12 p12 pfx
application/x-pkcs7-certificates p7b spc
application/x-pkcs7-certreqresp p7r
application/x-rar-compressed rar
application/x-research-info-systems ris
application/x-sh sh
application/x-shar shar

application/x-shockwave-flash swf
application/x-silverlight-app xap
application/x-sql sql
application/x-stuffit sit
application/x-stuffitx sitx
application/x-subrip srt
application/x-sv4cpio sv4cpio
application/x-sv4crc sv4crc
application/x-t3vm-image t3
application/x-tads gam
application/x-tar tar
application/x-tcl tcl
application/x-tex tex
application/x-tex-tfm tfm
application/x-texinfo texinfo texi
application/x-tgif obj
application/x-ustar ustar
application/x-wais-source src
application/x-www-form-urlencoded
application/x-x509-ca-cert der crt
application/x-xfig fig
application/x-xliff+xml xlf
application/x-xpinstall xpi
application/x-xz xz
application/x-zmachine z1 z2 z3 z4 z5 z6 z7 z8
application/x400-bp
application/xacml+xml
application/xaml+xml xaml
application/xcap-att+xml
application/xcap-caps+xml
application/xcap-diff+xml xdf
application/xcap-el+xml
application/xcap-error+xml
application/xcap-ns+xml
application/xcon-conference-info+xml
application/xcon-conference-info-diff+xml
application/xenc+xml xenc
application/xhtml+xml xhtml xht
application/xhtml-voice+xml
application/xml xml xsl
application/xml-dtd dtd
application/xml-external-parsed-entity
application/xml-patch+xml
application/xmpp+xml
application/xop+xml xop
application/xproc+xml xpl
application/xslt+xml xslt
application/xspf+xml xspf

application/xv+xml mxml xhvm xvm xvm
application/yang yang
application/yin+xml yin
application/zip zip
application/zlib
audio/1d-interleaved-parityfec
audio/32kadpcm
audio/3gpp
audio/3gpp2
audio/ac3
audio/adpcm adp
audio/amr
audio/amr-wb
audio/amr-wb+
audio/aptx
audio/asc
audio/atrac-advanced-lossless
audio/atrac-x
audio/atrac3
audio/basic au snd
audio/bv16
audio/bv32
audio/clearmode
audio/cn
audio/dat12
audio/dls
audio/dsr-es201108
audio/dsr-es202050
audio/dsr-es202211
audio/dsr-es202212
audio/dv
audio/dvi4
audio/eac3
audio/encaprtmp
audio/evrc
audio/evrc-qcp
audio/evrc0
audio/evrc1
audio/evrcb
audio/evrcb0
audio/evrcb1
audio/evrcnw
audio/evrcnw0
audio/evrcnw1
audio/evrcwb
audio/evrcwb0
audio/evrcwb1
audio/evs

audio/example
audio/fwdred
audio/g711-0
audio/g719
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chemical/x-cmdf cmdf
chemical/x-cml cml
chemical/x-csml csml
chemical/x-pdb
chemical/x-xyz xyz
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image/cgm cgm
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image/prs.pti
image/pwg-raster

image/sgi sgi
image/svg+xml svg svgz
image/t38
image/tiff tiff tif
image/tiff-fx
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image/vnd.airzip.accelerator.azv
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image/x-icon ico
image/x-mrsid-image sid
image/x-pcx pcx
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image/x-portable-bitmap pbm
image/x-portable-graymap pgm
image/x-portable-pixmap ppm

image/x-rgb rgb
image/x-tga tga
image/x-xbitmap xbm
image/x-xpixmap xpm
image/x-xwindowdump xwd
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message/partial
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message/s-http
message/sip
message/sipfrag
message/tracking-status
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message/vnd.wfa.wsc
model/example
model/iges igs iges
model/mesh msh mesh silo
model/vnd.collada+xml dae
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model/vnd.gtw gtw
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model/vnd.parasolid.transmit.text
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model/vrml wrl vrml
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model/x3d+vrml x3dv x3dvz

model/x3d+xml x3d x3dz
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multipart/digest
multipart/encrypted
multipart/example
multipart/form-data
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multipart/mixed
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multipart/related
multipart/report
multipart/signed
multipart/voice-message
multipart/x-mixed-replace
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text/dns
text/ecmascript
text/encaprtf
text/enriched
text/example
text/fwdred
text/grammar-ref-list
text/html html htm
text/javascript
text/jcr-cnd
text/markdown
text/mizar
text/n3 n3
text/parameters
text/parityfec
text/plain txt text conf def list log in
text/provenance-notation
text/prs.fallenstein.rst
text/prs.lines.tag dsc
text/raptorfec
text/red
text/rfc822-headers
text/richtext rtx
text/rtf

```
# text/rtp-enc-aescm128
# text/rtploopback
# text/rtx
text/sgml    sgml sgm
# text/t140
text/tab-separated-values  tsv
text/troff   t tr roff man me ms
text/turtle  ttl
# text/ulpfec
text/uri-list  uri uris urls
text/vcard    vcard
# text/vnd.a
# text/vnd.abc
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# text/vnd.debian.copyright
# text/vnd.dmclientscript
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# text/vnd.esmertec.theme-descriptor
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text/vnd.graphviz  gv
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text/vnd.in3d.spot  spot
# text/vnd.ipbc.newsml
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# text/vnd.latex-z
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# text/vnd.ms-mediapackage
# text/vnd.net2phone.commcenter.command
# text/vnd.radisys.msml-basic-layout
# text/vnd.si.uricatalogue
text/vnd.sun.j2me.app-descriptor  jad
# text/vnd.trolltech.linguist
# text/vnd.wap.si
# text/vnd.wap.sl
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text/x-asm  s asm
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text/x-fortran  f for f77 f90
text/x-java-source  java
text/x-nfo  nfo
text/x-opml  opml
text/x-pascal  p pas
text/x-setext  etx
```

text/x-sfv sfv
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text/x-vcalendar vcs
text/x-vcard vcf
text/xml
text/xml-external-parsed-entity
video/1d-interleaved-parityfec
video/3gpp 3gp
video/3gpp-tt
video/3gpp2 3g2
video/bmpeg
video/bt656
video/celb
video/dv
video/encaprtsp
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video/h263-2000
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video/h264-svc
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video/jpeg2000
video/jpm jpm jpgm
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video/mp2p
video/mp2t
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video/mp4v-es
video/mpeg mpeg mpg mpe m1v m2v
video/mpeg4-generic
video/mpv
video/nv
video/ogg ogv
video/parityfec
video/pointer
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video/vnd.dece.hd uvh uvvh
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video/vnd.dvb.file dvb
video/vnd.fvt fvt
video/vnd.hns.video
video/vnd.iptvforum.1dparityfec-1010
video/vnd.iptvforum.1dparityfec-2005
video/vnd.iptvforum.2dparityfec-1010
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video/vnd.iptvforum.ttsmpeg2
video/vnd.motorola.video
video/vnd.motorola.videop
video/vnd.mpegurl mxu m4u
video/vnd.ms-playready.media.pyv pyv
video/vnd.nokia.interleaved-multimedia
video/vnd.nokia.videovoip
video/vnd.objectvideo
video/vnd.radgamettools.bink
video/vnd.radgamettools.smacker
video/vnd.sealed.mpeg1
video/vnd.sealed.mpeg4
video/vnd.sealed.swf
video/vnd.sealedmedia.softseal.mov
video/vnd.uvu.mp4 uvu uvvu
video/vnd.vivo viv
video/vp8
video/webm webm
video/x-f4v f4v
video/x-fli fli
video/x-flv flv
video/x-m4v m4v
video/x-matroska mkv mk3d mks
video/x-mng mng
video/x-ms-asf asf asx
video/x-ms-vob vob
video/x-ms-wm wm
video/x-ms-wmv wmv

video/x-ms-wmx wmx
video/x-ms-wvx wvx
video/x-msvideo avi
video/x-sgi-movie movie
video/x-smv smv
x-conference/x-cooltalk ice

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/ahc-mime.types

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/Part.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/LazyResponseBodyPart.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/uri/UriParser.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/PartBase.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/part/PartVisitor.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/BoundRequestBuilder.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/UriEncoder.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/OnLastHttpContentCallback.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/Param.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/future/StackTraceInspector.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/ByteArrayPart.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/FileLikePart.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/FilePart.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/channel/ChannelPoolPartitioning.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/multipart/StringPart.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/config/AsyncHttpClientConfigDefaults.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/StringUtils.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/netty/EagerResponseBodyPart.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/uri/Uri.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/ws/WebSocket.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/ws/WebSocketUpgradeHandler.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/oauth/OAuthSignatureCalculatorInstance.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/MessageDigestUtils.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/oauth/Parameter.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/cookie/ThreadSafeCookieStore.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/oauth/Parameters.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-

jar/org/asynchttpclient/cookie/CookieStore.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-

jar/org/asynchttpclient/spnego/SpnegoEngine.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynhttpclient/ListenableFuture.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-

jar/org/asynchttpclient/netty/channel/NettyChannelConnector.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/request/body/generator/ReactiveStreamsBodyGenerator.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/request/body/NettyReactiveStreamsBody.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/netty/handler/StreamedResponsePublisher.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/exception/RemotelyClosedException.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/exception/TooManyConnectionsException.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/exception/PoolAlreadyClosedException.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/exception/TooManyConnectionsPerHostException.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/exception/ChannelClosedException.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/handler/StreamedAsyncHandler.java

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jar/org/asynchttpclient/util/AuthenticatorUtils.java

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/ntlm/NtlmEngine.java
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
jar/org/asynchttpclient/RequestBuilderBase.java
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- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/filter/ResponseFilter.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/ProgressAsyncHandler.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/resumable/ResumableListener.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/TransferCompletionHandler.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/MiscUtils.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/resumable/ResumableIOExceptionFilter.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/generator/ByteArrayBodyGenerator.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/Body.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/webdav/WebDavCompletionHandlerBase.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/resumable/PropertiesBasedResumableProcessor.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/ws/WebSocketListener.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/filter/IOExceptionFilter.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/filter/FilterException.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/resumable/ResumableRandomAccessFileListener.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/TransferListener.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/filter/RequestFilter.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/generator/FileBodyGenerator.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/ProxyUtils.java
- * /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/webdav/WebDavResponse.java

* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/generator/BodyGenerator.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/util/HttpUtils.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/RandomAccessBody.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/resumable/ResumableAsyncHandler.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/handler/BodyDeferringAsyncHandler.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/filter/FilterContext.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/filter/ThrottleRequestFilter.java
* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-jar/org/asynchttpclient/request/body/generator/InputStreamBodyGenerator.java

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*/
/**
* Value class used for OAuth tokens (request secret, access secret);
* simple container with two parts, public id part ("key") and
* confidential ("secret") part.
*/

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* /opt/ws_local/PERMITS_SQL/1030071614_1591326199.5/0/async-http-client-2-11-0-sources-
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1.7 postgresql-jdbc 42.2.24

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1.8 spring-beans 5.3.12

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jar/org/springframework/beans/factory/ObjectFactory.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/PropertyAccessorFactory.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/BeanDefinitionResource.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/InstantiationStrategy.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/BeanCreationException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/ManagedList.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/NamedBeanHolder.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/support/PagedListHolder.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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jar/org/springframework/beans/factory/annotation/Required.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/annotation/BeanFactoryAnnotationUtils.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/ManagedArray.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/ObjectProvider.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/XmlBeanFactory.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/PropertyAccessor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/annotation/AnnotationBeanWiringInfoResolver.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/ManagedMap.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/InitializingBean.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/BeanDefinitionOverrideException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/PropertyAccessException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/BeanExpressionContext.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-

jar/org/springframework/beans/factory/support/ManagedSet.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/BeanFactoryExtensions.kt
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/DefaultBeanDefinitionDocumentReader.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/BeanInstantiationException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/SmartFactoryBean.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/PropertyValues.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/MethodInvocationException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/InvalidPropertyException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/NotWritablePropertyException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/DisposableBean.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/Mergeable.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-

jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/AbstractFactoryBean.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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jar/org/springframework/beans/factory/support/BeanNameGenerator.java
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jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
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jar/org/springframework/beans/PropertyValuesEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java
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 - * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
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 - * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/BeanNameAware.java
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 - * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/BeanInitializationException.java
 - * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
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 - * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerResolver.java
 - * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/config/BeanDefinitionCustomizer.java
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- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/annotation/Lookup.java
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Found in path(s):

- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/support/ConstructorResolver.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/xml/ParserContext.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/propertyeditors/PathEditor.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/support/LookupOverride.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/annotation/RequiredAnnotationBeanPostProcessor.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/TypeMismatchException.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/AbstractNestablePropertyAccessor.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/config/YamlProcessor.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/BeanFactory.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/support/AbstractBeanDefinition.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/BeanUtils.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/propertyeditors/LocaleEditor.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/config/PlaceholderConfigurerSupport.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/support/MethodReplacer.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/support/PropertyComparator.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
- * /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-

jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/CglibSubclassingInstantiationStrategy.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/ReplaceOverride.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/AbstractAutowireCapableBeanFactory.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java
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jar/org/springframework/beans/PropertyBatchUpdateException.java

* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/annotation/AnnotationBeanUtils.java
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/BeanMetadataElement.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/propertyeditors/CustomCollectionEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/propertyeditors/StringTrimmerEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/TypeConverterDelegate.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/ExtendedBeanInfo.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/annotation/ParameterResolutionDelegate.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/propertyeditors/UIIDEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/TypeConverterSupport.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/support/MethodOverrides.java
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-jar/org/springframework/beans/factory/InjectionPoint.java
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/propertyeditors/CustomMapEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/PropertyValue.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/support/GenericBeanDefinition.java
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/NamespaceHandler.java
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jar/org/springframework/beans/factory/xml/DocumentLoader.java
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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jar/org/springframework/beans/factory/wiring/BeanWiringInfoResolver.java
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jar/org/springframework/beans/factory/config/BeanReference.java
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jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
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jar/org/springframework/beans/propertyeditors/InputSourceEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/BeanFactoryAware.java
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jar/org/springframework/beans/factory/BeanExpressionException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/parsing/ProblemReporter.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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jar/org/springframework/beans/ConversionNotSupportedException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/BeanIsAbstractException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-

jar/org/springframework/beans/propertyeditors/CharsetEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/XmlBeanDefinitionStoreException.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/SimplePropertyNamespaceHandler.java
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* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/ExtendedBeanInfoFactory.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/SimpleTypeConverter.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.groovy
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/BeanInfoFactory.java
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jar/org/springframework/beans/factory/SmartInitializingSingleton.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
jar/org/springframework/beans/factory/annotation/AnnotatedBeanDefinition.java
* /opt/cola/permits/1220178460_1635318352.56/0/spring-beans-5-3-12-sources-
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jar/org/springframework/beans/factory/annotation/Autowire.java
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1.9 fast-infoset 1.2.13

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*/zpool01/javaneet/scm/svn/tmp/cvs2svn/fi/FastInfoSet/src/com/sun/xml/fastinfoset/AbstractResourceBundle.java,v
1.3.2.4 2009-05-13 08:53:01 oleksiys Exp $
*/
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-  
jar/com/sun/xml/fastinfoset/Decoder.java  
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-  
jar/com/sun/xml/fastinfoset/sax/AttributesHolder.java  
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-  
jar/com/sun/xml/fastinfoset/algorithm/BASE64EncodingAlgorithm.java  
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-  
jar/com/sun/xml/fastinfoset/algorithm/HexadecimalEncodingAlgorithm.java  
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-  
jar/com/sun/xml/fastinfoset/sax/SAXDocumentParser.java  
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-  
jar/com/sun/xml/fastinfoset/algorithm/BuiltInEncodingAlgorithm.java  
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-  
jar/com/sun/xml/fastinfoset/algorithm/FloatEncodingAlgorithm.java  
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-  
jar/com/sun/xml/fastinfoset/stax/StAXDocumentParser.java  
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-  
jar/com/sun/xml/fastinfoset/algorithm/BooleanEncodingAlgorithm.java
```

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```
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-  
jar/com/sun/xml/fastinfoset/stax/events/StAXFilteredEvent.java
```

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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/org/apache/xerces/util/XMLChar.java

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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/org/jvnet/fastinfoset/FastInfosetSerializer.java

- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/EventLocation.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/helpers/FastInfosetDefaultHandler.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/QualifiedName.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/FixedEntryStringIntMap.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/ValueArrayResourceException.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/alphabet/BuiltInRestrictedAlphabets.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/EncodingAlgorithmContentHandler.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/tools/FI_SAX_XML.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/algorithm/LongEncodingAlgorithm.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/LocalNameQualifiedNamesMap.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/sax/SAXDocumentSerializerWithPrefixMapping.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/tools/FI_SAX_Or_XML_SAX_DOM_SAX_SAXEvent.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/EncodingAlgorithmAttributes.java
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- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/FastInfosetWriter.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/PrimitiveTypeContentHandler.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/FastInfosetParser.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/sax/SystemIdResolver.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/StAXDocumentSerializer.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/tools/StAX2SAXReader.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/events/EntityReferenceEvent.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/tools/VocabularyGenerator.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/vocab/ParserVocabulary.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/sax/SAXDocumentSerializer.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/vocab/SerializerVocabulary.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/FastInfosetException.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/algorithm/DoubleEncodingAlgorithm.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/EncodingAlgorithmException.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/algorithm/IntEncodingAlgorithm.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/EncodingConstants.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/helpers/EncodingAlgorithmAttributesImpl.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/stax/FastInfosetStreamReader.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/ExternalVocabulary.java

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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/algorithm/IEEE754FloatingPointEncodingAlgorithm.java

* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/events/DTDEvent.java

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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/events/EndDocumentEvent.java

* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/FastInfosetReader.java

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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/events/AttributeBase.java

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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/StringArray.java

* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/events/EndElementEvent.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/PrefixArray.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/CharArrayString.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/CharArrayIntMap.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/EncodingAlgorithm.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/events/EmptyIterator.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/factory/StAXEventFactory.java
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/stax/factory/StAXOutputFactory.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/tools/SAXEventSerializer.java
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jar/com/sun/xml/fastinfoset/tools/TransformInputOutput.java
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jar/com/sun/xml/fastinfoset/stax/events/StartElementEvent.java
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jar/com/sun/xml/fastinfoset/dom/DOMDocumentParser.java

1.10 swagger-jersey-jaxrs 1.5.21

1.10.1 Available under license :

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1.11 json-java 20200518

1.11.1 Available under license :

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1.12 zookeeper-jute 3.5.5

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1.13 netty-codec-mqtt 4.1.69.Final

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* /opt/cola/permits/1235364931_1638382294.29/0/netty-codec-mqtt-4-1-69-final-sources-
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1.14 concurrentlinkedhashmap-lru 1.3.2

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```

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* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-
jar/com/zaxxer/hikari/HikariJNDIFactory.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-
jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-
jar/com/zaxxer/hikari/metrics/MetricsTracker.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-
jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
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* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/util/UtilityElf.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/pool/ProxyStatement.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTracker.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/HikariConfigMXBean.java

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* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/util/ConcurrentBag.java

* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/pool/ProxyResultSet.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/util/DriverDataSource.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/util/SuspendResumeLock.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/HikariConfig.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/pool/ProxyConnection.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
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* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/util/FastList.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTask.java

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* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-
jar/com/zaxxer/hikari/util/ClockSource.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-
jar/com/zaxxer/hikari/metrics/PoolStats.java
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jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleHealthChecker.java
* /opt/cola/permits/1257259274_1642793180.98/0/hikaricp-3-4-5-sources-
jar/com/zaxxer/hikari/pool/PoolEntry.java
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jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTrackerFactory.java
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1.19 async-http-client-netty-utils 2.11.0

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 */
```

Found in path(s):

`/opt/ws_local/PERMITS_SQL/1030071612_1591846450.84/0/async-http-client-netty-utils-2-11-0-sources-jar/org/asynchttpclient/netty/util/Utf8ByteBufCharsetDecoder.java`

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```

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```
*/opt/ws_local/PERMITS_SQL/1030071612_1591846450.84/0/async-http-client-netty-utils-2-11-0-sources-
jar/org/asynchttpclient/netty/util/ByteBufUtils.java
```

1.20 jackson-module-parameter-names 2.13.0

1.20.1 Available under license :

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1.21 kafka-schema-registry-client 5.3.0

1.21.1 Available under license :

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```
<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<parent>
```

```
<groupId>io.confluent</groupId>
```

```
<artifactId>kafka-schema-registry-parent</artifactId>
```

```
<version>5.3.0</version>
```

```
</parent>
```

```
<licenses>
```

```
<license>
```

```
<name>Apache License 2.0</name>
```

```
<url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
```

```
<distribution>repo</distribution>
</license>
</licenses>

<artifactId>kafka-schema-registry-client</artifactId>
<packaging>jar</packaging>
<name>kafka-schema-registry-client</name>

<dependencies>
  <dependency>
    <groupId>org.apache.kafka</groupId>
    <artifactId>kafka-clients</artifactId>
  </dependency>
  <dependency>
    <groupId>io.confluent</groupId>
    <artifactId>common-config</artifactId>
  </dependency>

  <dependency>
    <groupId>org.apache.avro</groupId>
    <artifactId>avro</artifactId>
  </dependency>
  <dependency>
    <groupId>com.fasterxml.jackson.core</groupId>
    <artifactId>jackson-databind</artifactId>
  </dependency>

  <dependency>
    <groupId>org.easymock</groupId>
    <artifactId>easymock</artifactId>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>org.powermock</groupId>
    <artifactId>powermock-module-junit4</artifactId>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>org.powermock</groupId>
    <artifactId>powermock-api-easymock</artifactId>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>
```

</project>

Found in path(s):

* /opt/cola/permits/1257811008_1646348803.3/0/kafka-schema-registry-client-5-3-0-jar/META-INF/maven/io.confluent/kafka-schema-registry-client/pom.xml

1.22 hibernate-validator 6.1.7.Final

1.22.1 Available under license :

Hibernate Validator, declare and validate application constraints

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1.23 jackson-databind 2.13.0

1.23.1 Available under license :

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1.24 lang-tag 1.4.4

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* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-jar/com/nimbusds/langtag/LangTag.java
* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-jar/com/nimbusds/langtag/ReadOnlyLangTag.java
* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-jar/com/nimbusds/langtag/package-info.java
* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-jar/com/nimbusds/langtag/LangTagUtils.java
* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-jar/com/nimbusds/langtag/LangTagException.java

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* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-jar/META-INF/maven/com.nimbusds/lang-tag/pom.xml

1.25 config 1.3.4

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1.26 versly-wsdoc 1.1.010

1.27 reactive-streams 1.0.3

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```
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-
jar/org/reactivestreams/Publisher.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-
jar/org/reactivestreams/FlowAdapters.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-
jar/org/reactivestreams/Processor.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-
jar/org/reactivestreams/Subscription.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-
jar/org/reactivestreams/Subscriber.java
```

1.28 json-path 2.4.0

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- */

Found in path(s):

- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidJsonException.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidCriteriaException.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/JsonPathException.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PredicateContextImpl.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/Utils.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/function/latebinding/PathLateBindingValue.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/ParseContext.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Configuration.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/EvaluationListener.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/RootPathToken.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JettisonProvider.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/CompiledPath.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/WriteContext.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Option.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PredicatePathToken.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidPathException.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/Path.java
- * /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/ArrayPathToken.java

* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JsonProvider.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/ValueCompareException.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Predicate.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/JsonSmartMappingProvider.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/ReadContext.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PathToken.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/AbstractJsonProvider.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Filter.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JacksonJsonProvider.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/function/latebinding/JsonLateBindingValue.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/ScanPathToken.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/cache/LRUCache.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidModificationException.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/MappingException.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/WildcardPathToken.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/TapestryMappingProvider.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Criteria.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/TypeRef.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/JsonContext.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/EvaluationContext.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/JacksonMappingProvider.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/DocumentContext.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JsonSmartJsonProvider.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/JsonFormatter.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/MappingProvider.java

* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/GsonMappingProvider.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/JsonPath.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/EvaluationContextImpl.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/function/latebinding/ILateBindingValue.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PropertyPathToken.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/GsonJsonProvider.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/PathNotFoundException.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/MapFunction.java

1.29 commons-collections 3.2.1

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1.30 jersey-servlet 1.19.1

1.31 framework-tool-plugin-doc 2.1.25-SNAPSHOT

1.31.1 Available under license :

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```
/*!
 * jQuery Color Animations v2.1.2
 * https://github.com/jquery/jquery-color
 *
 * Copyright 2013 jQuery Foundation and other contributors
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 * http://jquery.org/license
 *
 * Date: Wed Jan 16 08:47:09 2013 -0600
 */
```

Found in path(s):

```
* /opt/cola/permits/1257810994_1646348723.04/0/framework-tool-plugin-doc-2-1-25-snapshot-
jar/template/html/js/jquery-ui.js
```

No license file was found, but licenses were detected in source scan.

```
/*!
 * jQuery JavaScript Library v1.7.2
 * http://jquery.com/
 *
 * Copyright 2011, John Resig
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 * http://jquery.org/license
 *
 * Includes Sizzle.js
 * http://sizzlejs.com/
 * Copyright 2011, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 *
 * Date: Wed Mar 21 12:46:34 2012 -0700
 */
```

```
/*!
 * Sizzle CSS Selector Engine
 * Copyright 2011, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */
// the proprietary classid attribute value (rather than the type
// proprietary methods to clear the events. Thanks to MooTools
```

Found in path(s):

```
* /opt/cola/permits/1257810994_1646348723.04/0/framework-tool-plugin-doc-2-1-25-snapshot-
jar/template/html/js/jquery-1.7.2.js
```

1.32 dom4j 2.1.3

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- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementQNameIterator.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementIterator.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/ElementHandler.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/CDATA.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Document.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Action.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Comment.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Entity.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanDocumentFactory.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightCDATA.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/IllegalAddException.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBModifier.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FilterIterator.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMDocumentType.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Pattern.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Rule.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/NamespaceStack.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/NamespaceCache.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBObjectHandler.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMReader.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/QName.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/VisitorSupport.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/InvalidXPathException.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/XPath.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanMetaData.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dtd/ElementDecl.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/XMLWriter.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-

jar/org/dom4j/rule/pattern/DefaultPattern.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/xpath/XPathPattern.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/DefaultCDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
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Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/DocumentHelper.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXReader.java
- * /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXHelper.java

1.33 native-protocol 1.4.12

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1.34 common-utils 5.3.0

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* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Util.java
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/OP.java
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Offset.java
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- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Mem.java
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- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/PrefOp.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Assembler_A64.java
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- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/SerializerIntrinsics_a64.java
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- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/CodeBuffer.java
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- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/InstructionDescription.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Shift.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/SHIFT_ENUM.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/ERROR_CODE.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/SIZE.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/CPU_A64.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Serializer.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/OperandFlags.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/PRFOP_ENUM.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Logger.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Pre_index.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/CpuInfo.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Label.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Immediate.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Conditions.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Ext.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/REG.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Operand.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/SysRegister.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/SerializerCore.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/BaseReg.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/RelocData.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/CONDITION.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/PREF_ENUM.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/RELOC_MODE.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/LinkData.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/SYSREG_CODE.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/ExtendedValue.java
- * /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/SysRegDescription.java

* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/INST_CODE.java

1.37 st4 4.0.8

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1.38 jcip-annotation 1.0 1

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* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/NotThreadSafe.java

* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java

* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/GuardedBy.java

* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/Immutable.java

1.39 logback-core 1.2.6

1.39.1 Available under license :

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1.40 netty-resolver 4.1.69.Final

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Found in path(s):

```
* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
jar/io/netty/resolver/InetAddressResolver.java
* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
```

jar/io/netty/resolver/DefaultNameResolver.java

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* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-

jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-jar/META-

INF/maven/io.netty/netty-resolver/pom.xml

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* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/HostsFileEntries.java

* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

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* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/package-info.java

* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/NameResolver.java

* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

* /opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

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*/opt/cola/permits/1265673564_1643932606.25/0/netty-resolver-4-1-69-final-sources-
jar/io/netty/resolver/HostsFileEntriesProvider.java
```

1.41 failureaccess 1.0.1

1.42 httpcomponents-mime 4.5.13

1.42.1 Available under license :

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1.43 jnr-ffi 2.2.0

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```
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/ToNativeType.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/ResultType.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/Types.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/NativeVariable.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
```

jar/jnr/ffi/mapper/SimpleTypeMapper.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
jar/jnr/ffi/provider/jffi/ConverterMetaData.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/SigType.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
jar/jnr/ffi/mapper/SimpleFunctionMapper.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
jar/jnr/ffi/provider/jffi/StructByReferenceResultConverterFactory.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
jar/jnr/ffi/provider/jffi/AnnotationTypeMapper.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/FromNativeType.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/ParameterType.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/InterfaceScanner.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/NativeFunction.java
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jar/jnr/ffi/provider/jffi/platform/aarch64/linux/TypeAliases.java

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* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/int32_t.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/BoxedFloatArrayParameterConverter.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NativeLibraryLoader.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/blksize_t.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/x86_64/solaris/TypeAliases.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/s390x/linux/TypeAliases.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/ppc/darwin/TypeAliases.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/InvokerTypeMapper.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/uintptr_t.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/InvalidProvider.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/sa_family_t.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/PrimitiveArrayParameterStrategy.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/LocalVariable.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/ppc64/aix/TypeAliases.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/StructByReferenceToNativeConverter.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/ReflectionVariableAccessorGenerator.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/LibraryLoader.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/rlim_t.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/x86_64/openbsd/TypeAliases.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/caddr_t.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-

jar/jnr/ffi/provider/jffi/platform/x86_64/windows/TypeAliases.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/FromNativeTypes.java
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* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/Pointer64ArrayParameterConverter.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/Util.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/StringBufferParameterConverter.java
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* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/gid_t.java
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* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/BufferParameterStrategy.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/nlink_t.java
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* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/int16_t.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/key_t.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NullObjectParameterStrategy.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/NativeLong32ArrayParameterConverter.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/in_addr_t.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/mode_t.java
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* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/StructArrayParameterConverter.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/uid_t.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/NativeLong64ArrayParameterConverter.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/EnumConverter.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/ClosureTypeMapper.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/SignatureTypeMapperAdapter.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/x86_64/linux/TypeAliases.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/VariableAccessorGenerator.java

- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/size_t.java
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- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/i386/windows/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/CachingTypeMapper.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/int64_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/ByReferenceParameterConverter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/FromNativeType.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/i386/solaris/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/i386/freebsd/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/AbstractSignatureTypeMapper.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/StringResultConverter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/NumberByReference.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/CharSequenceParameterConverter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/u_int8_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/i386/darwin/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/NativeLongConverter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/clock_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/intptr_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/TypeDefinition.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/blkcnt_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/ClosureFromNativeConverter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/mips64el/linux/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/DefaultSignatureType.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/ToNativeTypes.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/swblk_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/X86Disassembler.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NotImplMethodGenerator.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/int8_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/u_int32_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-

jar/jnr/ffi/provider/jffi/platform/i386/openbsd/TypeAliases.java
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 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/ino_t.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/provider/converters/StructByReferenceFromNativeConverter.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/ToNativeOp.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/mapper/CompositeFunctionMapper.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
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 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
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 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
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 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/util/AnnotationNameComparator.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
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 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
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 jar/jnr/ffi/provider/jffi/LocalVariableAllocator.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/mapper/AbstractFromNativeType.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/mapper/AbstractToNativeType.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/provider/jffi/platform/sparcv9/solaris/TypeAliases.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/provider/jffi/ParameterStrategy.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/provider/converters/BoxedLong32ArrayParameterConverter.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/provider/converters/EnumSetConverter.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/ssize_t.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/provider/jffi/NativeClosureProxy.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/provider/jffi/NativeFunctionMapperContext.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
 jar/jnr/ffi/provider/converters/BoxedShortArrayParameterConverter.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/Encoding.java

- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/StringUtil.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/ReflectionLibraryLoader.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/id_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/TypeAlias.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/off_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/mipsel/linux/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/DefaultTypeMapper.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/ToNativeType.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/time_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/mips64/linux/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/in_port_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/CompositeTypeMapper.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/dev_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/s390/linux/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/ino64_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/Long32ArrayParameterConverter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/util/Annotations.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/u_int64_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/TransientNativeMemory.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/i386/linux/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/StringBuilderParameterConverter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/fsblkcnt_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AsmStructByReferenceFromNativeConverter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/PointerParameterStrategy.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/x86_64/darwin/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/x86_64/dragonfly/TypeAliases.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/BoxedIntegerArrayParameterConverter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/SignatureType.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/converters/BoxedByteArrayParameterConverter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/types/fsfilcnt_t.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-

jar/jnr/ffi/provider/jffi/platform/arm/linux/TypeAliases.java

* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NoX86.java

* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/Variable.java

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jar/jnr/ffi/provider/NativeInvocationHandler.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/Pointer.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
jar/jnr/ffi/provider/jffi/DefaultInvokerFactory.java
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jar/jnr/ffi/util/ref/FinalizableWeakReference.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
jar/jnr/ffi/util/ref/FinalizablePhantomReference.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
jar/jnr/ffi/util/ref/FinalizableReferenceQueue.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
jar/jnr/ffi/util/ref/FinalizableReference.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-
jar/jnr/ffi/util/ref/FinalizableSoftReference.java
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* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/Memory.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/AbstractNumberReference.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/Runtime.java
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- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/InvokerUtil.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/Out.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AbstractX86StubCompiler.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/LibraryLoader.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/AbstractRuntime.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/StubCompiler.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/LastError.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NativeRuntime.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/SaveError.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/SkinnyMethodAdapter.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/TypeMapper.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/JNINativeInterface.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/LongLongByReference.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AsmClassLoader.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/Pinned.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/In.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/Address.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/ShareMemoryIO.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/Provider.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/MemoryManager.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AbstractA64StubCompiler.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/Direct.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NumberUtil.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/FromNativeContext.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/BoundedMemoryIO.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/MethodResultContext.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/X86_64StubCompiler.java
- * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/ByReference.java

* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/CodegenUtils.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NativeMemoryManager.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/AddressByReference.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/AbstractBufferMemoryIO.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/CallingConvention.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/Transient.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/ByteBufferMemoryIO.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/Synchronized.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/MemoryUtil.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/PointerByReference.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/Meta.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AsmRuntime.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/IdentityFunctionMapper.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/AbstractArrayMemoryIO.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/util/BufferUtil.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/ToNativeContext.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/InvocationSession.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/FunctionMapper.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/BadType.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/NulTerminate.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AsmLibraryLoader.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/ARM_64StubCompiler.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AsmUtil.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/ToNativeConverter.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/NativeLong.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/DataConverter.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/ParameterFlags.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/IgnoreError.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/X86_32StubCompiler.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/ShortByReference.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/JNIInvokeInterface.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NativeLibrary.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/DirectMemoryIO.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/FromNativeConverter.java
 * /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-

jar/jnr/ffi/provider/jffi/SymbolNotFoundError.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/util/EnumMapper.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/ByteByReference.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/Clear.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/InAccessibleMemoryIO.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/DoubleByReference.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AllocatedDirectMemoryIO.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/Platform.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/LibraryOption.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/DelegatingMemoryIO.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/NullTypeMapper.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/FloatByReference.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/MethodParameterContext.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/StdCall.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/Invoker.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/IntByReference.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/LoadedLibrary.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/NullMemoryIO.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/Library.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/byref/NativeLongByReference.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/AbstractMemoryIO.java
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* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/BufferMethodGenerator.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AsmBuilder.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/FastLongMethodGenerator.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/mapper/AbstractDataConverter.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/FastNumericMethodGenerator.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/ObjectReferenceManager.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/DefaultObjectReferenceManager.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/Delegate.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NativeClosurePointer.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/ClosureManager.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/IntPtr.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/StructLayout.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/X86MethodGenerator.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AbstractAsmLibraryInterface.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/FastIntPtrMethodGenerator.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/AbstractFastNumericMethodGenerator.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NativeClosureManager.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/MethodGenerator.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/ClosureUtil.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/NativeClosureFactory.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/annotations/LongLong.java
* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/BaseMethodGenerator.java

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* /opt/cola/permits/1199743715_1630577646.23/0/jnr-ffi-2-2-0-sources-2-jar/jnr/ffi/provider/jffi/platform/ppc64le/linux/TypeAliases.java

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1.44 netty-codec 4.1.69.Final

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 * under the License.
 */
/*
 * Written by Robert Harder and released to the public domain, as explained at
 * https://creativecommons.org/licenses/publicdomain
 */
/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * Base64 notation.
 *
 * 

The encoding and decoding algorithm in this class has been derived from
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 \* Base64 Encoder/Decoder.


 */

```

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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/base64/Base64.java

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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java

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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml

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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-

jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/package-info.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-

jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-

jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java

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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
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*/

/**

* Enumeration of supported Base64 dialects.

* <p>

* The internal lookup tables in this class has been derived from

* Robert Harder's Public Domain
* Base64 Encoder/Decoder.

*/

Found in path(s):

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.java
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 */
 /**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 *
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +-----+-----+ +-----+-----+
 * | Length | Actual Content |---->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
 * +-----+-----+ +-----+-----+
 * </pre>
 *
 * <h3>2 bytes length field at offset 0, strip header</h3>
 *
 * Because we can get the length of the content by calling
 * {@link ByteBuf#readableBytes()}, you might want to strip the length

* field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we
 * specified `<tt>2</tt>`, that is same with the length of the length field, to
 * strip the first two bytes.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
```

```
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |   | "HELLO, WORLD" |
* +-----+-----+ +-----+
```

```
* </pre>
```

* `<h3>2 bytes length field at offset 0, do not strip header, the length field
 * represents the length of the whole message</h3>`

* In most cases, the length field represents the length of the message body
 * only, as shown in the previous examples. However, in some protocols, the
 * length field represents the length of the whole message, including the
 * message header. In such a case, we specify a non-zero
 * `<tt>lengthAdjustment</tt>`. Because the length value in this example message
 * is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`
 * as `<tt>lengthAdjustment</tt>` for compensation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
```

```
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
```

```
* </pre>
```

* `<h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>`

* The following message is a simple variation of the first example. An extra
 * header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero
 * again because the decoder always takes the length of the prepended data into
 * account during frame length calculation.

```
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
```

```

* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)           AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" | | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

* **3 bytes length field at the beginning of 5 bytes header, do not strip header**

* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `lengthAdjustment` so that the decoder counts the extra header into the frame length calculation.

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)           AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

* **2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field**

* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `lengthFieldOffset` and the extra header affects the `lengthAdjustment`. We also specified a non-zero `initialBytesToStrip` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `0` for `initialBytesToSkip`.

```

* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)           AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |

```

```

* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/Headers.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java

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- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java

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- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/HeadersUtils.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java

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- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
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- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
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- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
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- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
- * /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java

* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
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* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1265673536_1643922096.16/0/netty-codec-4-1-69-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java

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1.47 slf4j-log4j 1.7.32

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1.48 jnr-constants 0.10.0

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```
* /opt/cola/permits/1199743700_1630577690.39/0/jnr-constants-0-10-0-sources-1-jar/jnr/Constants/Constant.java
* /opt/cola/permits/1199743700_1630577690.39/0/jnr-constants-0-10-0-sources-1-
jar/jnr/Constants/PlatformConstants.java
* /opt/cola/permits/1199743700_1630577690.39/0/jnr-constants-0-10-0-sources-1-jar/jnr/Constants/ConstantSet.java
* /opt/cola/permits/1199743700_1630577690.39/0/jnr-constants-0-10-0-sources-1-
jar/jnr/Constants/platform/ConstantResolver.java
```

1.49 server-sdk 6.0.1.0

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1.50 jackson 1.9.2

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- * /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-jar/org/codehaus/jackson/Base64Variant.java
- * /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-jar/org/codehaus/jackson/JsonParser.java
- * /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-jar/org/codehaus/jackson/JsonFactory.java
- * /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-jar/org/codehaus/jackson/JsonGenerator.java
- * /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-jar/org/codehaus/jackson/Base64Variants.java
- * /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-jar/org/codehaus/jackson/util/ByteArrayBuilder.java

1.51 jcommander 1.78

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\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/JCommander.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/DefaultUsageFormatter.java

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\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/URLConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/Lists.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ParameterException.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/DefaultConverterFactory.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/IntegerConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/FileConverter.java  
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\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/Sets.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/LongConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/Maps.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/InetAddressConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/Parameters.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ParameterDescription.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/URICConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/BaseConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/CharArrayConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/PathConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ParametersDelegate.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/ResourceBundle.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/IDefaultProvider.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/DoubleConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/BigDecimalConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/FloatConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/MissingCommandException.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/NoConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/BooleanConverter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/Parameter.java  
\* /opt/cola/permits/1135840359\_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/ISO8601DateConverter.java

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jar/com/beust/jcommander/validators/NoValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/validators/PositiveInteger.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/validators/NoValueValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/IPParameterValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/IPParameterValidator2.java
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## 1.52 jctools-core 3.1.0

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- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
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- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCLinkedQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpmcArrayQueue.java
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- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-

jar/org/jctools/queues/MpmcUnboundedXaddChunk.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/MpscChunkedArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/maps/NonBlockingHashMapLong.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java  
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xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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<url>https://github.com/JCTools</url>

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 <distribution>repo</distribution>
 </license>
</licenses>

<scm>
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 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
 <developer>
 <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
 <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
 <url>https://github.com/RichardWarburton</url>
 </developer>
 <developer>
 <url>https://github.com/kay</url>
 </developer>
 <developer>
 <url>https://github.com/franz1981</url>
 </developer>
</developers>

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</prerequisites>

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 <java.version>1.6</java.version>
 <java.test.version>1.8</java.test.version>

 <maven.compiler.source>${java.version}</maven.compiler.source>
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<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
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```

## 1.53 httpclient-cache 4.5.13

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# 1.54 spring-rabbit 2.3.11

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\* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-  
jar/org/springframework/amqp/rabbit/batch/BatchingStrategy.java  
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\* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-  
jar/org/springframework/amqp/rabbit/listener/QueuesNotAvailableException.java  
\* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-  
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jar/org/springframework/amqp/rabbit/connection/SimpleResourceHolder.java  
\* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-  
jar/org/springframework/amqp/rabbit/batch/MessageBatch.java

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jar/org/springframework/amqp/rabbit/config/ContainerCustomizer.java
* /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
jar/org/springframework/amqp/rabbit/connection/PublisherCallbackChannelFactory.java
* /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
jar/org/springframework/amqp/rabbit/listener/adapters/AdapterBatchMessagingMessageListenerAdapter.java
* /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
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\* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-jar/org/springframework/amqp/rabbit/config/StatelessRetryOperationsInterceptorFactoryBean.java  
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jar/org/springframework/amqp/rabbit/connection/ConnectionProxy.java

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jar/org/springframework/amqp/rabbit/connection/RoutingConnectionFactory.java  
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jar/org/springframework/amqp/rabbit/listener/ListenerContainerConsumerFailedEvent.java  
\* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-  
jar/org/springframework/amqp/rabbit/annotation/QueueBinding.java  
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jar/org/springframework/amqp/rabbit/listener/ListenerContainerConsumerTerminatedEvent.java  
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jar/org/springframework/amqp/rabbit/logback/AmqpAppender.java  
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 * /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
jar/org/springframework/amqp/rabbit/connection/RabbitUtils.java
 * /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
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jar/org/springframework/amqp/rabbit/connection/PublisherCallbackChannel.java
 * /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
jar/org/springframework/amqp/rabbit/connection/PendingConfirm.java
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jar/org/springframework/amqp/rabbit/connection/RabbitConnectionFactoryBean.java
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  - \* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-jar/org/springframework/amqp/rabbit/listener/SimpleMessageListenerContainer.java
  - \* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-jar/org/springframework/amqp/rabbit/connection/PublisherCallbackChannelImpl.java
  - \* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-jar/org/springframework/amqp/rabbit/connection/AbstractConnectionFactory.java
  - \* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-jar/org/springframework/amqp/rabbit/config/RabbitNamespaceUtils.java
  - \* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-jar/org/springframework/amqp/rabbit/connection/CorrelationData.java
  - \* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-jar/org/springframework/amqp/rabbit/connection/ConnectionFactoryUtils.java
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 * /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
jar/org/springframework/amqp/rabbit/listener/support/ContainerUtils.java
 * /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
jar/org/springframework/amqp/rabbit/retry/ImmediateRequeueMessageRecoverer.java
 * /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
jar/org/springframework/amqp/rabbit/core/BrokerEventListener.java
 * /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
jar/org/springframework/amqp/rabbit/connection/ConnectionFactoryConfigurationUtils.java
 * /opt/cola/permits/1220178530_1635319508.3/0/spring-rabbit-2-3-11-sources-
jar/org/springframework/amqp/rabbit/connection/ClosingRecoveryListener.java
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jar/org/springframework/amqp/rabbit/annotation/MultiRabbitListenerAnnotationBeanPostProcessor.java  
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\* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-jar/org/springframework/amqp/rabbit/config/AbstractRabbitListenerContainerFactory.java  
\* /opt/cola/permits/1220178530\_1635319508.3/0/spring-rabbit-2-3-11-sources-jar/org/springframework/amqp/rabbit/retry/RepublishMessageRecoverer.java

## 1.55 Iz4-java 1.7.1

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```

```
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## 1.58 activation-api 1.1



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## 1.59 archaius-core 0.4.1

## 1.60 dom 1.0

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ElementEditAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASObject.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/dom3/as/DOMImplementationAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASModel.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DocumentAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASDataType.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASContentModel.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASWriter.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DocumentEditAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASObjectList.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASBuilder.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/NodeEditAS.java  
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```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/datatypes/package.html
```

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```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/w3c/dom/html/HTMLDOMImplementation.java
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*/
```

```
/**
```

```
* Checks if this content model has had its min/maxOccurs values reduced for
* purposes of speeding up UPA. If so, this content model should not be used
* for any purpose other than checking unique particle attribution
*
* @return a boolean that says whether this content has been compacted for UPA
*/
```

Found in path(s):

```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
```

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 */
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new LSParser. The newly constructed parser may
 * then be configured by means of its DOMConfiguration
 * object, and used to parse documents by means of its parse
 * method.
 * @param mode The mode argument is either
 * MODE_SYNCHRONOUS or MODE_ASYNCHRONOUS, if
 * mode is MODE_SYNCHRONOUS then the
 * LSParser that is created will operate in synchronous
 * mode, if it's MODE_ASYNCHRONOUS then the
 * LSParser that is created will operate in asynchronous
 * mode.
 * @param schemaType An absolute URI representing the type of the schema
 * language used during the load of a Document using the
 * newly created LSParser. Note that no lexical checking
 * is done on the absolute URI. In order to create a
 * LSParser for any kind of schema types (i.e. the
 * LSParser will be free to use any schema found), use the value
 * null.
 * <p>Note: For W3C XML Schema [XML Schema Part 1]
 * , applications must use the value
 * "http://www.w3.org/2001/XMLSchema". For XML DTD [XML 1.0],
 * applications must use the value
 * "http://www.w3.org/TR/REC-xml". Other Schema languages
 * are outside the scope of the W3C and therefore should recommend an
 * absolute URI in order to use this method.
 * @return The newly created LSParser object. This
```

- \* `LSParser` is either synchronous or asynchronous
- \* depending on the value of the `mode` argument.
- \* **Note:** By default, the newly created `LSParser`
- \* does not contain a `DOMErrorHandler`, i.e. the value of
- \* the "[" configuration parameter is `null`. However, implementations](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)
- \* may provide a default error handler at creation time. In that case,
- \* the initial value of the `"error-handler"` configuration
- \* parameter on the new created `LSParser` contains a
- \* reference to the default error handler.
- \* @exception DOMException
- \* NOT\_SUPPORTED\_ERR: Raised if the requested mode or schema type is
- \* not supported.

Found in path(s):

`/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java`

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`/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java`

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*/
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

```

Found in path(s):

```

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSConstraints.java
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Found in path(s):

```

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

```

jar/org/apache/html/dom/HTMLFrameElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/util/ShadowedSymbolTable.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLImgElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/WMLOptgroupElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xni/parser/XMLInputSource.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/WMLImgElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLTimerElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xs/XSParticle.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xs/StringList.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/WMLTimerElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java  
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jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java  
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jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/parsers/ObjectFactory.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLPrevElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-



jar/org/apache/xerces/impl/dv/util/HexBin.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/jaxp/datatype/SerializedXMLGregorianCalendar.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
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- \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java

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```
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jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XPointerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties
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```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSDFACM.java
```

# 1.61 jersey-client 1.19.1

## 1.62 cglib 5.3.12

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jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
jar/org/springframework/expression/spel/ast/MethodReference.java
* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
jar/org/springframework/expression/spel/ast/Indexer.java
* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
jar/org/springframework/expression/spel/standard/SpelCompiler.java
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- \* /opt/cola/permits/1220178521\_1635319533.02/0/spring-expression-5-3-12-sources-jar/org/springframework/expression/spel/ast/OpMinus.java
- \* /opt/cola/permits/1220178521\_1635319533.02/0/spring-expression-5-3-12-sources-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
- \* /opt/cola/permits/1220178521\_1635319533.02/0/spring-expression-5-3-12-sources-jar/org/springframework/expression/spel/ast/OpAnd.java
- \* /opt/cola/permits/1220178521\_1635319533.02/0/spring-expression-5-3-12-sources-jar/org/springframework/expression/spel/ast/OpDec.java
- \* /opt/cola/permits/1220178521\_1635319533.02/0/spring-expression-5-3-12-sources-jar/org/springframework/expression/spel/ast/CompoundExpression.java
- \* /opt/cola/permits/1220178521\_1635319533.02/0/spring-expression-5-3-12-sources-jar/org/springframework/expression/spel/ast/OperatorPower.java
- \* /opt/cola/permits/1220178521\_1635319533.02/0/spring-expression-5-3-12-sources-jar/org/springframework/expression/spel/ast/LongLiteral.java
- \* /opt/cola/permits/1220178521\_1635319533.02/0/spring-expression-5-3-12-sources-

jar/org/springframework/expression/spel/ast/OpInc.java  
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\* /opt/cola/permits/1220178521\_1635319533.02/0/spring-expression-5-3-12-sources-  
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jar/org/springframework/expression/PropertyAccessor.java  
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jar/org/springframework/expression/spel/ast/OpEQ.java  
\* /opt/cola/permits/1220178521\_1635319533.02/0/spring-expression-5-3-12-sources-

jar/org/springframework/expression/spel/ast/InlineList.java  
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* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
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* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
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* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
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* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
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* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
jar/org/springframework/expression/Expression.java
* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
jar/org/springframework/expression/ParseException.java
* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1220178521_1635319533.02/0/spring-expression-5-3-12-sources-
jar/org/springframework/expression/ParserContext.java
```

## 1.67 biweekly 0.5.0

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\* /opt/cola/permits/1235364932\_1638382296.01/0/netty-transport-rxtx-4-1-69-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java  
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## 1.71 java-driver-mapper-runtime 4.10.0

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jar/com/datastax/dse/driver/api/mapper/reactive/MappedReactiveResultSet.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/entity/naming/SetterStyle.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/annotations/NamingStrategy.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/dse/driver/internal/mapper/reactive/DefaultMappedReactiveResultSet.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/MapperContext.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/result/MapperResultProducer.java
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jar/com/datastax/oss/driver/api/mapper/annotations/QueryProvider.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/entity/naming/GetterStyle.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/entity/naming/NamingConvention.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/annotations/DaoTable.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/annotations/DaoKeyspace.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/annotations/Mapper.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/entity/saving/NullSavingStrategy.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/annotations/Entity.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
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jar/com/datastax/oss/driver/api/mapper/annotations/PropertyStrategy.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/MapperException.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/entity/EntityHelper.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/MapperBuilder.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/StatementAttributes.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/TransientProperties.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/internal/mapper/DaoBase.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/dse/driver/internal/mapper/reactive/ReactiveDaoBase.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/PartitionKey.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/GetEntity.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/Dao.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/Select.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/DaoFactory.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/Increment.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/Computed.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/Query.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/dse/driver/internal/mapper/reactive/FailedMappedReactiveResultSet.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/internal/mapper/DaoCacheKey.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/SchemaHint.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/entity/naming/NameConverter.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/DefaultNullSavingStrategy.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/internal/mapper/entity/EntityHelperBase.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/CqlName.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-  
jar/com/datastax/oss/driver/api/mapper/annotations/DaoProfile.java  
\* /opt/cola/permits/1145782256\_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-

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jar/com/datastax/oss/driver/api/mapper/annotations/Transient.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
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* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/annotations/Insert.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/internal/mapper/DefaultMapperContext.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/annotations/Delete.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/annotations/HierarchyScanStrategy.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/annotations/Update.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/result/MapperResultProducerService.java
* /opt/cola/permits/1145782256_1616451470.25/0/java-driver-mapper-runtime-4-10-0-sources-
jar/com/datastax/oss/driver/api/mapper/annotations/SetEntity.java
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## 1.72 netty-resolver-dns 4.1.69.Final

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```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/META-
INF/maven/io.netty/netty-resolver-dns/pom.xml
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jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-  
jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-  
jar/io/netty/resolver/dns/DnsNameResolverBuilder.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-  
jar/io/netty/resolver/dns/DnsServerAddressStream.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-  
jar/io/netty/resolver/dns/DnsQueryContextManager.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-  
jar/io/netty/resolver/dns/DnsNameResolverException.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-  
jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-  
jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-  
jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java

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\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DatagramDnsQueryContext.java

\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/TcpDnsQueryContext.java

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\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/LoggingDnsQueryLifeCycleObserverFactory.java

\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/UnixResolverOptions.java

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\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DirContextUtils.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsAddressResolveContext.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/Cache.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java

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\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/package-info.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsResolveContext.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsNameResolver.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsAddressResolverGroup.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsQueryContext.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsServerAddresses.java

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\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DnsCache.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java  
\* /opt/cola/permits/1221869477\_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java

```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
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```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
```

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* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
```

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* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
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```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
```

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* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java
```

```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/DnsCacheEntry.java
```

```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
```

```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
```

```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
```

```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
```

```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
```

```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java
```

```
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
```

```
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1221869477_1635493931.72/0/netty-resolver-dns-4-1-69-final-sources-
jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java
```

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```
* /opt/cola/permits/1146221464_1616477529.06/0/error-prone-annotations-2-5-1-jar/META-
INF/maven/com.google.errorprone/error_prone_annotations/pom.xml
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## 1.74 antlr-runtime 4.5

## 1.75 ucp 18.3.0.0

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.  
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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- \* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/CollectionMapper.java
- \* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParser.java
- \* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/CompressorMapper.java

```
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStyle.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserInputStream.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserByteArray.java
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*/
```

Found in path(s):

```
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/DefaultMapper.java
```

## 1.85 jmespath-java 1.11.868

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```
* /opt/cola/permits/1265673601_1643932655.02/0/jmespath-java-1-11-868-sources-jar/META-
INF/maven/com.amazonaws/jmespath-java/pom.xml
```

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```
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```

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Found in path(s):

\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/Comparator.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/OpGreaterThanOrEqualTo.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/JmesPathVisitor.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/JmesPathFilter.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/JmesPathContainsFunction.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/JmesPathNotExpression.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/JmesPathField.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/OpGreaterThan.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/OpLessThanOrEqualTo.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/JmesPathEvaluationVisitor.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/CamelCaseUtils.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/ObjectMapperSingleton.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/JmesPathProjection.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/JmesPathAndExpression.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/JmesPathExpression.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-jar/com/amazonaws/jmespath/JmesPathLiteral.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-

jar/com/amazonaws/jmespath/OpEquals.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/OpLessThan.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/JmesPathFlatten.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/OpNotEquals.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/JmesPathIdentity.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/JmesPathValueProjection.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/NumericComparator.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/JmesPathMultiSelectList.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/JmesPathLengthFunction.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/InvalidTypeException.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/JmesPathSubExpression.java  
\* /opt/cola/permits/1265673601\_1643932655.02/0/jmespath-java-1-11-868-sources-  
jar/com/amazonaws/jmespath/JmesPathFunction.java

## 1.86 metrics-httpclient 4.1.26

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## 1.88 protobuf-java 2.2.0

## 1.89 jetty-util 9.4.44.v20210927

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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\* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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# 1.91 jaxb-api 2.3.0

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## 1.92 libffi 1.2

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Manifest-Version: 1.0  
Archiver-Version: Plexus Archiver  
Created-By: Apache Maven Bundle Plugin  
Automatic-Module-Name: org.jnrproject.jffi  
Bnd-LastModified: 1599864364736  
Build-Jdk: 11.0.4  
Built-By: headius  
Bundle-ClassPath: .,jni  
Bundle-Description: Java Foreign Function Interface - Native Libraries  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: jffi  
Bundle-SymbolicName: com.github.jnr.jffi.native  
Bundle-Version: 1.3.0  
Fragment-Host: com.github.jnr.jffi  
Require-Bundle: com.github.jnr.jffi  
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

\* /opt/cola/permits/1242030553\_1645092167.83/0/jffi-1-3-0-native-jar/META-INF/MANIFEST.MF

## 1.93 dom4j 1.6.1

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History:

| Date      | Who | What                               |
|-----------|-----|------------------------------------|
| 28oct1999 | dl  | Created                            |
| 14dec1999 | dl  | jmm snapshot                       |
| 19apr2000 | dl  | use barrierLock                    |
| 12jan2001 | dl  | public release                     |
| 17nov2001 | dl  | Minor tunings                      |
| 20may2002 | dl  | BarrierLock can now be serialized. |
| 09dec2002 | dl  | Fix interference checks.           |

\*/

Found in path(s):

\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ConcurrentReaderHashMap.java

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- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/InvalidXPathException.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ProcessingInstruction.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/LeafTreeNode.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/XPath.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/IndexedElement.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultAttribute.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Branch.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/XMLTableColumnDefinition.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/AttributeHelper.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/NodeComparator.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/SingleIterator.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/XPPReader.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Node.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/NullAction.java



\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentHelper.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentSource.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractNode.java  
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 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBObjectHandler.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/NamedTypeResolver.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/DefaultNamespaceContext.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMDocumentFactory.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyException.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractProcessingInstruction.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/XPathPattern.java

\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/CDATA.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractCharacterData.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXReader.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Mode.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightCDATA.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultEntity.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMAttribute.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXHelper.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/ProxyDocumentFactory.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanAttributeList.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanElement.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractCDATA.java  
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## 1.95 guava 24.1.1-jre

## 1.96 jackson-annotations 2.13.0

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and

\* The Eclipse Public 1.0 License  
<http://www.eclipse.org/legal/epl-v10.html>

Jetty may be distributed under either license.

-----

Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----  
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

-----  
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----  
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----  
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

## 1.98 framework-supports 2.1.25-SNAPSHOT

### 1.98.1 Available under license :

No license file was found, but licenses were detected in source scan.

# confidentiality \*AND\* message authenticity. (NIST refers to such cipher

Found in path(s):

\* /opt/cola/permits/1257811120\_1646347962.41/0/framework-supports-2-1-25-snapshot-jar/esapi/ESAPI.properties

## 1.99 oauth2-oidc-sdk 8.36.2

### 1.99.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, version 2.0</name>

<url><http://www.apache.org/licenses/LICENSE-2.0.html></url>

Found in path(s):

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/META-INF/maven/com.nimbusds/oauth2-oidc-sdk/pom.xml

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/\*

\* oauth2-oidc-sdk

\*

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```

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* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
/**
* OpenID Connect client information. Encapsulates the registration and
* metadata details of an OpenID Connect client:
*
*
* The client identifier.
* The client OpenID Connect metadata.
* The optional client secret for a confidential client.
* The optional registration URI and access token if dynamic client
* registration is permitted.
*
*
* <p>Related specifications:
*
*
* OpenID Connect Dynamic Client Registration 1.0.
* OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section
* 3.2.1.
* OAuth 2.0 Dynamic Client Registration Management Protocol (RFC
* 7592), section 3.
*
*/

```

Found in path(s):

```

* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientInformation.java

```

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```

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* oauth2-oidc-sdk
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```

\* specific language governing permissions and limitations under the License.

\*/

/\*\*

\* Confidential. Clients capable of maintaining the confidentiality of

\* their credentials (e.g., client implemented on a secure server with

\* restricted access to the client credentials), or capable of secure

\* client authentication using other means.

\*/

/\*\*

\* Public. Clients incapable of maintaining the confidentiality of their

\* credentials (e.g., clients executing on the device used by the

\* resource owner, such as an installed native application or a web

\* browser-based application), and incapable of secure client

\* authentication via any other means.

\*/

Found in path(s):

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/client/ClientType.java

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/\*

\* oauth2-oidc-sdk

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/PolicyOperationCombinationValidator.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityRole.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/DefaultTrustChainRetriever.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/rp/statement/package-info.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-

jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/PolicyOperationFactory.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/ExactMatchEntityIDConstraint.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/OIDCClaimsRequest.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/entities/package-info.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/trust/marks/package-info.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingSpec.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/entities/FederationMetadataType.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/EntityIDConstraint.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingRequest.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationRequest.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicyEntry.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/DefaultPolicyOperationCombinationValidator.java  
 va  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/package-info.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/DefaultRPMetadataPolicyFactory.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationSuccessResponse.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingSuccessResponse.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainRetriever.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyOperationApplication.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/SubtreeEntityIDConstraint.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChain.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/package-info.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/rp/statement/InvalidSoftwareStatementException.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/claims/ClaimsSetRequest.java  
 \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-  
 jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingResponse.java



\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationResponse.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/package-info.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/DPoPJWTFactory.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/OperationType.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/rp/statement/SoftwareStatementProcessor.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementSuccessResponse.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/WellKnownPathComposeStrategy.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicy.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainResolver.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/ConfigurationType.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/registration/ClientRegistrationType.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementResponse.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatementClaimsVerifier.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FederationAPIError.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityStatementRetriever.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatement.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/InvalidEntityMetadataException.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/package-info.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/registration/ExplicitClientRegistrationRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingErrorResponse.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/package-info.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainSet.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/package-info.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/RPMetadataPolicyFactory.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/ResolveException.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/op/EndpointName.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationErrorResponse.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/DefaultEntityStatementRetriever.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/claims/VerifiedClaimsSetRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/TrustChainConstraints.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementErrorResponse.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/registration/package-info.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/DefaultDPoPJWTFactory.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FederationAPIRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/DPoPUtils.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/AuthRequestID.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityMetadataValidator.java  
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\* oauth2-oidc-sdk  
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\* specific language governing permissions and limitations under the License.  
\*/

Found in path(s):

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/validators/BadJWTExceptions.java

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\* oauth2-oidc-sdk

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\*/

/\*\*

\* Creates a new authenticated pushed authorisation request for a

\* confidential client.

\*

\* @param uri The URI of the token endpoint. May be

\* { @code null } if the { @link #toHttpRequest }

\* method will not be used.

\* @param clientAuth The client authentication. Must not be

\* { @code null }.

\* @param authzRequest The authorisation request. Must not be

\* { @code null }.

\*/

Found in path(s):

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/PushedAuthorizationRequest.java

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\* oauth2-oidc-sdk

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```

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* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
/**
* Authorisation code. Client authentication required only for
* confidential clients.
*/
/**
* Refresh token. Client authentication required only for confidential
* clients.
*/
/**
* Password. Client authentication required only for confidential
* clients.
*/

```

Found in path(s):

```

* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/GrantType.java

```

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```

/*
* oauth2-oidc-sdk
*
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* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
/**
* Token revocation request. Used to revoke an issued access or refresh token.
*
* <p>Example token revocation request for a confidential client:
*
* <pre>
* POST /revoke HTTP/1.1
* Host: server.example.com

```

```

* Content-Type: application/x-www-form-urlencoded
* Authorization: Basic czZCaGRSa3F0MzpnWDFmQmF0M2JW
*
* token=45ghiukldjahdnhzdauz&token_type_hint=refresh_token
* </pre>
*
* <p>Example token revocation request for a public client:
*
* <pre>
* POST /revoke HTTP/1.1
* Host: server.example.com
* Content-Type: application/x-www-form-urlencoded
*
* token=45ghiukldjahdnhzdauz&token_type_hint=refresh_token&client_id=123456
* </pre>
*
* <p>Related specifications:
*
*
* OAuth 2.0 Token Revocation (RFC 7009), section 2.1.
*
*/
/**
 * Creates a new token revocation request for a confidential client.
 *
 * @param uri The URI of the token revocation endpoint. May be
 * { @code null } if the { @link #toHTTPRequest } method
 * will not be used.
 * @param clientAuth The client authentication. Must not be
 * { @code null }.
 * @param token The access or refresh token to revoke. Must not be
 * { @code null }.
 */
// confidential client

```

Found in path(s):

```

* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/TokenRevocationRequest.java

```

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```

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 * oauth2-oidc-sdk
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```
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* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
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*/
```

Found in path(s):

```
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/ciba/CIBARequestAcknowledgement.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/util/ListUtils.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/ciba/CIBAEErrorDelivery.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/ciba/CIBASignedRequestClaimsSet.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/ciba/CIBATokenDelivery.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/ciba/CIBAPushCallback.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/ciba/CIBAEError.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/ciba/CIBAPingCallback.java
```

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```
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* oauth2-oidc-sdk
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* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
/**
* Client information. Encapsulates the registration and metadata details of
* an OAuth 2.0 client:
*
*/
```

```

*
* The client identifier.
* The client metadata.
* The optional client secret for a confidential client.
* The optional registration URI and access token if dynamic client
* registration is permitted.
*
*
* <p>Related specifications:
*
*
* OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section
* 3.2.1.
* OAuth 2.0 Dynamic Client Registration Management Protocol (RFC
* 7592), section 3.
*
*/
// The client must be unambiguously public, else it is marked as confidential

```

Found in path(s):

```

* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/client/ClientInformation.java

```

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```

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* oauth2-oidc-sdk
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* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
/**
* Creates a new request object POST request where the parameters are
* submitted as plain JSON object, and the client authenticates by
* means of mutual TLS. TLS also ensures the integrity and
* confidentiality of the request parameters. This method is not
* standard.
*
* @param uri The URI of the request object endpoint. May

```

```
* be { @code null } if the
* { @link #toHTTPRequest } method will not be
* used.
* @param tlsClientAuth The mutual TLS client authentication. Must
* not be { @code null }.
* @param requestJSONObject The request parameters as plain JSON
* object. Must not be { @code null }.
*/
```

Found in path(s):

```
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTRequest.java
```

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```
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* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/auth/ClientSecretJWT.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/jose/package-info.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/TokenIntrospectionSuccessResponse.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientUpdateRequest.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/http/ServletUtils.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/oauth2/sdk/token/BearerAccessToken.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/openid/connect/sdk/op/AuthenticationRequestDetector.java
* /opt/cola/permits/1199843396_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/policy/language/package-info.java
```



\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityEvidence.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/as/AuthorizationServerEndpointMetadata.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/LogoutTokenClaimsSet.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/TokenRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/validators/LogoutTokenValidator.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/AggregatedClaims.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/validators/IDTokenValidator.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/TokenResponse.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/OIDCTokenResponseParser.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/claims/ISO3166\_1Alpha2CountryCode.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/UntypedOperation.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/ClaimsRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationSuccessResponse.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/id/HashBasedPairwiseSubjectCodec.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationErrorResponse.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/token/TypelessAccessToken.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/AbstractOptionallyAuthenticatedRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/auth/JWTAuthenticationClaimsSet.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/PKIClientX509CertificateBindingVerifier.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyConfiguration.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/op/package-info.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringListConfiguration.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/assertions/jwt/JWTAssertionDetailsVerifier.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/device/DeviceCodeGrant.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/UserInfo.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityID.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/util/OrderedJSONObject.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/SupersetOfOperation.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationGrant.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/PolicyFormulationException.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBARequest.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/package-info.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationGrantError.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/assertions/AssertionDetails.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/util/date/package-info.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/client/ClientUpdateRequest.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/id/package-info.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/ResponseType.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/Utils.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/id/SIVAESEBasedPairwiseSubjectCodec.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/claims/CountryCode.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationSuccessResponse.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/AccessTokenHash.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/ClientAuthenticationVerifier.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/client/ClientDeleteRequest.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/QESEvidence.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/CommonOIDCTokenClaimsSet.java

\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/ciba/BackChannelTokenDeliveryMode.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/package-info.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/OIDCResponseTypeValue.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/DefaultOperation.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/ProtectedResourceRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/ClaimsTransport.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/assertions/package-info.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/Address.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyOperation.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/util/CollectionUtils.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/AMR.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/AuthenticationResponseParser.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/util/MultivaluedMapUtils.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTResponse.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/ParseException.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/ClaimRequirement.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/util/date/SimpleDate.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/util/tls/TLSUtils.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/AuthenticationRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/package-info.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/AbstractRequest.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/StateHash.java  
\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/id/ClientID.java  
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\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/token/RefreshToken.java  
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\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/ClientX509CertificateBindingVerifier.java

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\* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/client/ClientInformationResponse.java

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- \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/jarm/JARMClaimsVerifier.java
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- \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationCode.java
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- \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/id/Actor.java
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- \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationErrorResponse.java
- \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/ClientCredentialsGrant.java
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- \* /opt/cola/permits/1199843396\_1630602842.72/0/oauth2-oidc-sdk-8-36-2-sources-jar/com/nimbusds/oauth2/sdk/id/Issuer.java
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## 1.100 okio 1.17.2

## 1.101 json-schema-validator 1.0.57

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- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/CollectorContext.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/FalseValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/AbstractCollector.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/TrueValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/ValidationResult.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/PropertyNamesValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/ThreadInfo.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/SpecVersion.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/ValidatorState.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/ConstValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/Collector.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/JsonSchemaRef.java

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\* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/META-INF/maven/com.networknt/json-schema-validator/pom.xml

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\* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/format/InetAddressValidator.java

\* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/format/EmailValidator.java

\* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/format/DomainValidator.java

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- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/ValidatorTypeCode.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/NonValidationKeyword.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/MinLengthValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/Format.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/AbstractFormat.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/PropertiesValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/MinItemsValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/MaximumValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/JsonValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/JsonSchemaFactory.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/AnyOfValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/ExclusiveMaximumValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/ContainsValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/UUIDValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/MaxPropertiesValidator.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/AbstractKeyword.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/uri/URLFactory.java
- \* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-jar/com/networknt/schema/MinPropertiesValidator.java
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\* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-  
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jar/com/networknt/schema/NotAllowedValidator.java  
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jar/com/networknt/schema/TypeValidator.java  
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jar/com/networknt/schema/EnumValidator.java  
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jar/com/networknt/schema/PatternValidator.java  
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jar/com/networknt/schema/uri/ClasspathURLFetcher.java  
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jar/com/networknt/schema/RequiredValidator.java  
\* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-  
jar/com/networknt/schema/uri/URISchemeFetcher.java  
\* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-  
jar/com/networknt/schema/JsonMetaSchema.java  
\* /opt/cola/permits/1201879935\_1631304744.93/0/json-schema-validator-1-0-57-sources-  
jar/com/networknt/schema/ItemsValidator.java

# 1.102 jackson-datatype-jdk8 2.13.0

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## 1.104 activation 1.1

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## 1.105 spring-cloud-commons 3.0.4

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Found in path(s):

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* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/client/circuitbreaker/CircuitBreaker.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/client/circuitbreaker/ReactiveCircuitBreaker.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/client/circuitbreaker/NoFallbackAvailableException.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/client/circuitbreaker/AbstractCircuitBreakerFactory.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/client/circuitbreaker/CircuitBreakerFactory.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
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* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/client/circuitbreaker/ConfigBuilder.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/client/circuitbreaker/Customizer.java
```

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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/commons/ConfigDataMissingEnvironmentPostProcessor.java  
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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-commons/pom.xml  
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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/ConditionalOnBlockingDiscoveryEnabled.java  
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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/ConditionalOnReactiveDiscoveryEnabled.java  
\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/ConditionalOnDiscoveryHealthIndicatorEnabled.java

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* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/client/discovery/composite/reactive/ReactiveCompositeDiscoveryClient.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
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* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
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* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/client/loadbalancer/DefaultRequest.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
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* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
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* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
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* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
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jar/org/springframework/cloud/client/DefaultServiceInstance.java  
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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-  
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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-  
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jar/org/springframework/cloud/client/loadbalancer/reactive/RetryableExchangeFilterFunctionLoadBalancerRetryPol  
icy.java  
\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-  
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jar/org/springframework/cloud/client/discovery/composite/reactive/ReactiveCompositeDiscoveryClientAutoConfigu-  
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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-  
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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/discovery/simple/reactive/SimpleReactiveDiscoveryProperties.java

\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/SpringCloudApplication.java

\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/loadbalancer/RestTemplateCustomizer.java

\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/loadbalancer/reactive/LoadBalancerClientRequestTransformer.java

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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/loadbalancer/LoadBalancerRequestTransformer.java

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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/loadbalancer/reactive/LoadBalancedExchangeFilterFunction.java

\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/discovery/health/reactive/ReactiveDiscoveryHealthIndicator.java

\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/serviceregistry/AbstractAutoServiceRegistration.java

\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/hypermedia/RemoteResource.java

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\* /opt/cola/permits/1222421618\_1635579121.68/0/spring-cloud-commons-3-0-4-sources-jar/org/springframework/cloud/client/circuitbreaker/EnableCircuitBreakerImportSelector.java

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jar/org/springframework/cloud/configuration/TlsProperties.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
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jar/org/springframework/cloud/client/loadbalancer/reactive/RetryableLoadBalancerExchangeFilterFunction.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/commons/util/TaskSchedulerWrapper.java
* /opt/cola/permits/1222421618_1635579121.68/0/spring-cloud-commons-3-0-4-sources-
jar/org/springframework/cloud/client/loadbalancer/reactive/ExchangeFilterFunctionUtils.java
```

## 1.106 msal4j 1.2.0

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\* Factory for creating client credentials used in confidential client flows

\*/

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\* Object containing parameters for authorization code flow. Can be used as parameter to

\* { @link PublicClientApplication#acquireToken(AuthorizationCodeParameters) } or to

\* { @link ConfidentialClientApplication#acquireToken(AuthorizationCodeParameters) }

\*/

Found in path(s):

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/AuthorizationCodeParameters.java

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\* Object containing parameters for On-Behalf-Of flow. Can be used as parameter to

\* { @link ConfidentialClientApplication#acquireToken(OnBehalfOfParameters) }

\*/

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\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/OnBehalfOfParameters.java

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\* Object containing parameters for client credential flow. Can be used as parameter to

\* { @link ConfidentialClientApplication#acquireToken(ClientCredentialParameters) }

\*/

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jar/com/microsoft/aad/msal4j/ClientCredentialParameters.java

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jar/com/microsoft/aad/msal4j/TokenCache.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/MexParser.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/OAuthAuthorizationGrant.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/HttpUtils.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/IdTokenCacheEntity.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/JsonHelper.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/Account.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/ApiEvent.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/InstanceDiscoveryResponse.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

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\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/ITokenCacheAccessAspect.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/TokenRequestExecutor.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/TelemetryConstants.java

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\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
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\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/IPublicClientApplication.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/DeviceCodeFlowParameters.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/UserAssertion.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/WSTrustRequest.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/Event.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/ClientApplicationBase.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/XmsClientTelemetryInfo.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/RequestContext.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/RefreshTokenRequest.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/AcquireTokenByDeviceCodeFlowSupplier.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/ClientCertificate.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/InteractionRequiredExceptionReason.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/ITokenCache.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/DeviceCodeFlowRequest.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/IUserAssertion.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/SilentRequest.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationRequest.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/ParameterValidationUtils.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/HttpMethod.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/DeviceCode.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/MsalServiceException.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/IAuthenticationResult.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/WSTrustVersion.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/IClientSecret.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/DefaultEvent.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/UserNamePasswordRequest.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/OAuthHttpRequest.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/ErrorResponse.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/ClientInfo.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/Authority.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/HttpHelper.java

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/HttpEvent.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/ClientAuthenticationPost.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/ServiceBundle.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/AuthorityType.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/EventKey.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/Credential.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/MsalRequest.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/TokenResponse.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/AccessTokenCacheEntity.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/HttpHeaders.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/JwtHelper.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/AppMetadataCacheEntity.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/AADAuthority.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/RemoveAccountRunnable.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/InstanceDiscoveryMetadataEntry.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/PublicClientApplication.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/MsalServiceExceptionFactory.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/MsalException.java  
\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-  
jar/com/microsoft/aad/msal4j/UserDiscoveryResponse.java  
No license file was found, but licenses were detected in source scan.

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/\*\*

\* Object containing parameters for silent requests. Can be used as parameter to

\* { @link PublicClientApplication#acquireTokenSilently(SilentParameters) } or to

\* { @link ConfidentialClientApplication#acquireTokenSilently(SilentParameters) }

\*/

Found in path(s):

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/SilentParameters.java

No license file was found, but licenses were detected in source scan.

Signature-Version: 1.0

SHA-256-Digest-Manifest-Main-Attributes: ajLi/ZVDP0IygrDXT5SURtyHBprw86qVUyK5hH00v6k=

SHA-256-Digest-Manifest: HfLPRu4yLaiyRvKrE6+ovcNtZ93LLL4Qpi9DGhQr1Q4=

Created-By: 1.8.0\_112 (Oracle Corporation)

Name: com/microsoft/aad/msal4j/AccessTokenCacheEntity.java

SHA-256-Digest: Utbw5SgcDb66jfp4o4mA8Udk7j6TTbDRvf5bbgMcLGw=

Name: com/microsoft/aad/msal4j/DefaultHttpClient.java

SHA-256-Digest: 8Ec+3TckxezqbKnOCIXdCjC+rf0JjY0h3DRECykmQQZ=

Name: com/microsoft/aad/msal4j/ErrorResponse.java

SHA-256-Digest: QatufbjElZJmD0vo3KJWg+QiSPDC/g8VAXiwd8lcQo=

Name: com/microsoft/aad/msal4j/SafeDocumentBuilderFactory.java

SHA-256-Digest: eqIsFmVK5MHh8HfPOAT9GmV0dntbBdIln83E5hOhfMw=

Name: com/microsoft/aad/msal4j/ITokenCacheAccessAspect.java

SHA-256-Digest: to5LiSScJDopa/+qMy6XLE8tEKUZOKd4c4WWPfcCDc=

Name: com/microsoft/aad/msal4j/ServiceBundle.java

SHA-256-Digest: ljaLjkljyvGr/w2svKJrSoiyNjawBGYlkZ5AV1wenEU=

Name: com/microsoft/aad/msal4j/IPublicClientApplication.java

SHA-256-Digest: 9aeW5+FZ2jndjAYOKdTrBRh7Vnh3Gp4fU90p95WQPec=

Name: com/microsoft/aad/msal4j/Authority.java

SHA-256-Digest: kCPgNYZJgsXfIxX1rjZnDO7x09uWNxc/Om+IQFIABRM=

Name: com/microsoft/aad/msal4j/IHttpResponse.java

SHA-256-Digest: 8o4cRoDtPQ4s73s5o4soJNxcvyDTYDPuAw9PTGsDDHA=

Name: com/microsoft/aad/msal4j/HttpMethod.java

SHA-256-Digest: 305SQ9Vh30BEqy8XGeAKkh+q/nKlvuPxLzs6T4oQRSI=

Name: com/microsoft/aad/msal4j/ITelemetryManager.java

SHA-256-Digest: PeLIb+2AW+yrs2a9OmAdixymWTYYGbyMvyhEKLzx8WI=

Name: com/microsoft/aad/msal4j/IClientApplicationBase.java

SHA-256-Digest: OFmwNNJQxtTi2zoZGJxkB5ypJtrti1Irv18Xktvy9sk=



Name: com/microsoft/aad/msal4j/TokenResponse.java  
SHA-256-Digest: iFqTtOy168Ot3KYza01ubSStaXvC1clmJ1oOJUkd8gg=

Name: com/microsoft/aad/msal4j/ApiEvent.java  
SHA-256-Digest: B0z2OsL3FvkrfN+OaZiT6o8Vl+qGefcp8wKx63Bm19I=

Name: com/microsoft/aad/msal4j/AADAuthority.java  
SHA-256-Digest: 9tYtk+wvhNmzWkOfG57R3irsbRQLT571dtjcBEQBx3c=

Name: com/microsoft/aad/msal4j/HttpResponse.java  
SHA-256-Digest: 43+QD9RbKQWE3CQLub2gqt4ybRfL7zJ7xac98edZOdw=

Name: com/microsoft/aad/msal4j/AuthenticationResultSupplier.java  
SHA-256-Digest: CzCprUF6gyfcr+vzJDZ7LNU+LmiIdCJTsl0N9tchyZE=

Name: com/microsoft/aad/msal4j/Credential.java  
SHA-256-Digest: 5JRqvZGCtR42xP86rmSogwcqBCXI/A1MxOoS2Sgv1uY=

Name: com/microsoft/aad/msal4j/AccountsSupplier.java  
SHA-256-Digest: ZQBTIMiumGbx0fjbl+IU232K6x5Z2MenO1T5pywaMeA=

Name: com/microsoft/aad/msal4j/InstanceDiscoveryMetadataEntry.java  
SHA-256-Digest: dbOejoHDAwQ0bc8kG4QHPg6PNyw79IXhImoYEFyqTR0=

Name: com/microsoft/aad/msal4j/TokenCache.java  
SHA-256-Digest: Y3gAiDhF4DXtVT+Q4UCpUiSnA6cx3rU5ibis0XNcksc=

Name: com/microsoft/aad/msal4j/ClientInfo.java  
SHA-256-Digest: nPx+xMWz1/5R5oTyK/lgba+yl466pW6IGduR+BYITHE=

Name: com/microsoft/aad/msal4j/AbstractMsalAuthorizationGrant.java  
SHA-256-Digest: A5aoM7LKDxPOkHt/sljJYYsyNZLTddbwsrPHcs1VeVY=

Name: com/microsoft/aad/msal4j/OnBehalfOfParameters.java  
SHA-256-Digest: xjmShHgwohd3Bo71UR7QrUSZibMers4Q2ebGHksNeFQ=

Name: com/microsoft/aad/msal4j/DeviceCodeFlowRequest.java  
SHA-256-Digest: uTCLaWSeTebgBcterY0qb6C3wylQo86KvEPhhpmEAY4=

Name: com/microsoft/aad/msal4j/SilentRequest.java  
SHA-256-Digest: 04P7uj3A0xv5x11qK3rXdPSeJN6g9/+OFLRGfGGZr2k=

Name: com/microsoft/aad/msal4j/ParameterValidationUtils.java  
SHA-256-Digest: V2wC0OMQBHq7hnS/augpdhLuqyoMAI9cUYCEH/a3Szw=

Name: com/microsoft/aad/msal4j/JwtHelper.java  
SHA-256-Digest: QG8gNpYMWfQUtGVg/IPE0uy3OOnLW9MIOdSXkl/bWYQ=

Name: com/microsoft/aad/msal4j/JsonHelper.java  
SHA-256-Digest: c3IWqBelDgRdvAo8kAQKlh10D8RaMbqh3YqHFqjbbhw=

Name: com/microsoft/aad/msal4j/StringHelper.java  
SHA-256-Digest: gZQuuMIHwsA2EID966rm30AGaDY09/Up4FJ5k0OAA8M=

Name: com/microsoft/aad/msal4j/IClientSecret.java  
SHA-256-Digest: OzNKBPWbnBDWTdYi4oOljiqmS1Xm8vT9Cntb1izUt8Q=

Name: com/microsoft/aad/msal4j/IAuthenticationResult.java  
SHA-256-Digest: xjVmPrleUzL60pq+hi92aAofk2BNvIuRUwattZivcyM=

Name: com/microsoft/aad/msal4j/RemoveAccountRunnable.java  
SHA-256-Digest: 6im3vgcN/CsvswZbCjc45WV04ABxP9yAZadsR2xO+Uk=

Name: com/microsoft/aad/msal4j/WSTrustResponse.java  
SHA-256-Digest: f3vy5DkBNOOJRCrgB02JRYzJhFnuJYkpvr7+0ZODAKc=

Name: com/microsoft/aad/msal4j/AppMetadataCacheEntity.java  
SHA-256-Digest: RY7qfd+GeIzK1HaKvp7ZRodXBQn8W6kVaaqsP2KYv74=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthorizationGrant.java  
SHA-256-Digest: B/hXewfwa+YOFj/L4GmPnTw8CNuKDAS8bk6IEfxPwLg=

Name: com/microsoft/aad/msal4j/TokenRequestExecutor.java  
SHA-256-Digest: osRTOjh7NKG5zWChZgvBYHNx1b6EDld6iEKTnNwYd2g=

Name: com/microsoft/aad/msal4j/UserDiscoveryResponse.java  
SHA-256-Digest: x2fkP2DkLnmQgUf/19YNI0fi6nBSTblgGJ7SDgyvcmY=

Name: com/microsoft/aad/msal4j/AuthorityType.java  
SHA-256-Digest: VgijIa5B1fNUSmV0apEib91fl9TyWNIPmFweRi9yr4o=

Name: com/microsoft/aad/msal4j/AuthorizationCodeParameters.java  
SHA-256-Digest: iw7vTGZQn/vlmlS+cPveJkcAn50+SBJZxc0hhuAYHdc=

Name: com/microsoft/aad/msal4j/IUserAssertion.java  
SHA-256-Digest: 0TO2N+JvEqJYKdRKpqH4XnFriE9eqx7Y8NJhzkBzI+k=

Name: com/microsoft/aad/msal4j/Constants.java  
SHA-256-Digest: UBIgxNK0FsB32OPr6eEaiJ1mCUoc4Ywu6TQCIYCZG6g=

Name: com/microsoft/aad/msal4j/UserNamePasswordRequest.java  
SHA-256-Digest: WC05xsEMyZl2PjcGNbeU+xfEcgJZKAhFqp95PYmxunQ=

Name: com/microsoft/aad/msal4j/ClientCredentialFactory.java

SHA-256-Digest: h/vybuV Aeo69LsHFlqXDSzH8hEu4U3Yr6dkc1cxhH5g=

Name: com/microsoft/aad/msal4j/UserDiscoveryRequest.java

SHA-256-Digest: r6d3iTzok+TIduMQFwhvzAAAn66BZYR0+zSgungpeZ/Y=

Name: com/microsoft/aad/msal4j/DeviceCodeAuthorizationGrant.java

SHA-256-Digest: Kk/Nd/YiaAyo5IE8W/gvpGO1CgkoIRup+FbVRVpnlaw=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationRequest.  
java

SHA-256-Digest: L32sOG4bfW8eE1CubTf603pJ+HFhQjS6amWxAz3GpSA=

Name: com/microsoft/aad/msal4j/CredentialTypeEnum.java

SHA-256-Digest: vH/QW7PZJY0C+ho4hxbOBQqDsBqVFcy9nHvRcCoB1m8=

Name: com/microsoft/aad/msal4j/UserAssertion.java

SHA-256-Digest: Wzpdcjxs+X8uXdFfQp1VJIGfXMupZ/QPLkvT3n0cJDg=

Name: com/microsoft/aad/msal4j/AcquireTokenSilentSupplier.java

SHA-256-Digest: ms+fnTxLi6zVstbN/PN7jo7b21f2MxnQta+VSCck6MY=

Name: com/microsoft/aad/msal4j/ICConfidentialClientApplication.java

SHA-256-Digest: MdTPJ1zlhjVSHsHPsDfrLq72twN6XxoWDMGcfKmKO9Y=

Name: com/microsoft/aad/msal4j/ITelemetry.java

SHA-256-Digest: WYn4mYe33wz96PbbBN495eHwDoA1bex9HexSpDpGhqS=

Name: com/microsoft/aad/msal4j/AuthenticationResult.java

SHA-256-Digest: rAUHB0zXRGtT3pPloUTE7Qn3BijJLFPfbnkFZUJS+oU=

Name: com/microsoft/aad/msal4j/IHttpClient.java

SHA-256-Digest: gL8GV+TXIN+Xu4z3NfQrflmAc/j1R6uXXUCzF2Ufefg=

Name: com/microsoft/aad/msal4j/SAML11BearerGrant.java

SHA-256-Digest: 4uLy+9gSHSmVGfOoqSRQInErKlfckh7Dq4kT5jWVgfi=

Name: com/microsoft/aad/msal4j/WSTrustVersion.java

SHA-256-Digest: 5adZtFehfYDhj/P+q+bhPubZSQw9/Zx6h6DAwLTHqTM=

Name: com/microsoft/aad/msal4j/BindingPolicy.java

SHA-256-Digest: gsmPCCXkIF2ZyrMR6bjvKdn42ByDRTZcAd1E30/VkM=

Name: com/microsoft/aad/msal4j/HttpEvent.java

SHA-256-Digest: rERF62H7nnlua2j9BxXp60qQVzc9HLc8CeOd1ARz3yQ=

Name: com/microsoft/aad/msal4j/HttpRequest.java

SHA-256-Digest: qLYmVvKf7kTZ1ZWqaCuOuVg0+i7tgYiGI0wq4qt4drE=

Name: com/microsoft/aad/msal4j/OnBehalfOfRequest.java  
SHA-256-Digest: AynfSncpNJcbfU3PYNjO4cmncCepXTeZnyfTzhBeKqI=

Name: com/microsoft/aad/msal4j/AccountCacheEntity.java  
SHA-256-Digest: 1dRsJTC5f0hfjPcCdSVloe2T8mSJcmzjo8wwEQJ2/UU=

Name: com/microsoft/aad/msal4j/AuthenticationErrorMessage.java  
SHA-256-Digest: HeMkRnSnVvGP1uksVOS2+9+g007J7TbOpWCZ/wXv/Z0=

Name: com/microsoft/aad/msal4j/IAccount.java  
SHA-256-Digest: z55e4qqkDT3eYX9IulLhuXHWdaQLBHFmqed90XsSP+Q=

Name: com/microsoft/aad/msal4j/LogHelper.java  
SHA-256-Digest: DcuCo2hStfK6GgXjkEAAj61qGvxUj2t9EApmRYOPU=

Name: com/microsoft/aad/msal4j/MsalClientException.java  
SHA-256-Digest: ePs7fls1DM9W3r4cI6e8gwxYHXqku34R9duxKagHpGw=

Name: com/microsoft/aad/msal4j/IdToken.java  
SHA-256-Digest: U9kB5zn2ZFqSGVAi9kJhyKQYAqzMICtKeRtxvIRhXzQ=

Name: com/microsoft/aad/msal4j/ConfidentialClientApplication.java  
SHA-256-Digest: 2Vn7Gq5KL+Z4RljG+1TmoF+8Cvan36bhOrIz1jLRI6o=

Name: com/microsoft/aad/msal4j/AuthorizationCodeRequest.java  
SHA-256-Digest: j+ec5r+LDGvqSeJwrtJkjMA7SgiYc/+uUlff/3CE8=

Name: com/microsoft/aad/msal4j/B2CAuthority.java  
SHA-256-Digest: ElJmpYaLAg3EJSR/3Ok2VxXwGReT4hCN6pqkx5S/pV8=

Name: com/microsoft/aad/msal4j/SilentParameters.java  
SHA-256-Digest: gajPeodSSQHiFO5hGXQQJ4sUTTQ+lFPNvWIGIYYZ24=

Name: com/microsoft/aad/msal4j/ClientAssertion.java  
SHA-256-Digest: fmiSSrtOm8tHcwyOvvBjU/FWOB+rar5geJChXVcqWVI=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationParameters.java  
SHA-256-Digest: bW9zoMKvVZjn3B5226TgtuEuouD7RJPVXitR68GCAS8=

Name: com/microsoft/aad/msal4j/InteractionRequiredExceptionReason.java  
SHA-256-Digest: f6U70DMVHc1bSfmcjnrX7sAL2v+TMefwS+MIIZfaeOE=

Name: com/microsoft/aad/msal4j/MsalServiceExceptionFactory.java  
SHA-256-Digest: Ptbw6fNxJNiW6A+oiYifEdsp7+440BmGTVo///jQL94=

Name: com/microsoft/aad/msal4j/IdTokenCacheEntity.java  
SHA-256-Digest: hgUX3UaNbsbry544j4uVe+KfvLv9aWBErFSR1DDNPZg=

Name: com/microsoft/aad/msal4j/OAuthHttpRequest.java  
SHA-256-Digest: +smYhEk27ThDeGKBcWmhmLuoxNtQEIhSGgtuLH30dYA=

Name: com/microsoft/aad/msal4j/ITokenCacheAccessContext.java  
SHA-256-Digest: pL+si5uAYoNL/ea9fGOuSjh4whEkOmf2EVnwRSq0kVs=

Name: com/microsoft/aad/msal4j/TelemetryManager.java  
SHA-256-Digest: WUkqTLav+Ar9AZMy1gBdhIFoHBAPBKBB+3dTtnMHh9I=

Name: com/microsoft/aad/msal4j/AcquireTokenByAuthorizationGrantSupplier.java  
SHA-256-Digest: QhMYGApocjh0dz/vu3JTNvuXTjIs/JHopDU+EvOO5IA=

Name: com/microsoft/aad/msal4j/ClientCredentialParameters.java  
SHA-256-Digest: zogWmIoBYM6xHPRFzuMPJWw23nElfmyWOaHPmxTCeRk=

Name: com/microsoft/aad/msal4j/HttpHeaders.java  
SHA-256-Digest: UtiCrNfOPCrfFHzf++CikSVbH7avCKK7XOwcTzW4z9c=

Name: com/microsoft/aad/msal4j/ClientApplicationBase.java  
SHA-256-Digest: FfuvK2Mczek0wQu9dAH8z+JEJiX2jV9leD05ip6nHJo=

Name: com/microsoft/aad/msal4j/OAuthAuthorizationGrant.java  
SHA-256-Digest: B9I8JpzN3aOj4j17I2Od4pTv3Z8bCrNYe+02mu6E0SY=

Name: com/microsoft/aad/msal4j/MsalException.java  
SHA-256-Digest: eBxbvFhIFI4R+trjVCI47v17tM53Xjd9ZETDRoNuVEk=

Name: com/microsoft/aad/msal4j/ClientAuthenticationPost.java  
SHA-256-Digest: PDCUnu1uqbVRAn6rGicpTqb+8Q8/fKbW5RqeNgi9OEw=

Name: com/microsoft/aad/msal4j/MsalRequest.java  
SHA-256-Digest: a8U5aVjaAZ0bolgQG14er3K7IIFwOy9E8u0Ki0dQj+o=

Name: com/microsoft/aad/msal4j/AuthenticationErrorCode.java  
SHA-256-Digest: Of0a1MAetBeLS2Qhh2SILEaBysokF6qoj1+/SepWgtg=

Name: com/microsoft/aad/msal4j/Account.java  
SHA-256-Digest: UJGtyyRltS/ci6SZhDaxYNjUeLcQ1zRw0RYgbQ4xey0=

Name: com/microsoft/aad/msal4j/ADFSAuthority.java  
SHA-256-Digest: c+BUv6jVg+I6xExZ78K6uFdDMtyQP/vjybSwOAh55lw=

Name: com/microsoft/aad/msal4j/ITokenCache.java  
SHA-256-Digest: F7I4K5QVVVRaVYv1GX50p4MQOEKVkz/WwHmIwskdXoqo=

Name: com/microsoft/aad/msal4j/RefreshTokenParameters.java

SHA-256-Digest: N3SLS5RDr8QCLMk8ZD22SBmxjbfwemO+EuwHx26BbcY=

Name: com/microsoft/aad/msal4j/XmsClientTelemetryInfo.java

SHA-256-Digest: wVNAc/nclT+v4Iqhn7u5gzBOccWICqUOvzF7juPtW/0=

Name: com/microsoft/aad/msal4j/EventKey.java

SHA-256-Digest: yfC4deqrAJcOdRuMK/uB8dntSgb4zSYwg8V5haebD9s=

Name: com/microsoft/aad/msal4j/DefaultEvent.java

SHA-256-Digest: jnNs9yUhgx0ful9xXoIs0PRjU0UKHNaLz8iWhcjol+4=

Name: com/microsoft/aad/msal4j/UserNamePasswordParameters.java

SHA-256-Digest: vEeywUzUUEb/VSfpa8ajtr0sxDPvJCXzenuAsiK7z34=

Name: com/microsoft/aad/msal4j/PublicClientApplication.java

SHA-256-Digest: G0FcCmQXs0BWMPK0z0M/wbBobs9YyeZqAm5L1jImZGk=

Name: com/microsoft/aad/msal4j/DeviceCodeFlowParameters.java

SHA-256-Digest: DXXTEWImWsNQRme0Iy7NffQ91v1JxEDrVVzKpPR+5tA=

Name: com/microsoft/aad/msal4j/AcquireTokenByDeviceCodeFlowSupplier.java

SHA-256-Digest: UATWQG8H1rzQlkLseIBdr2q69UlaFiUe5hJrr8zTWi0=

Name: com/microsoft/aad/msal4j/MexParser.java

SHA-256-Digest: May9ZRmUFsqF8GlyybBnW7mrs/it3WkoI0e9Xd7HhmQ=

Name: com/microsoft/aad/msal4j/WSTrustRequest.java

SHA-256-Digest: emakvTCtNumm5BL5o5euXatE8UQhWJbUL+LBgnKxyqE=

Name: com/microsoft/aad/msal4j/Event.java

SHA-256-Digest: FVZ7iRoETpUCDrc6iZCP+YwrpWF52yy26x/xQi+ugHs=

Name: com/microsoft/aad/msal4j/ClientSecret.java

SHA-256-Digest: 8sjGya5vCftDzepJT9g9PahzSVm7sqf36mFChXpy/EU=

Name: com/microsoft/aad/msal4j/IClientCredential.java

SHA-256-Digest: kddz3wXZhRAuq9z3HvWE0gGiNwaazjLAIZ/GYoedzYs=

Name: com/microsoft/aad/msal4j/MsalInteractionRequiredException.java

SHA-256-Digest: PyT4dGIkJhotKPikrOvc0Traw9HuR//0pg7Vwgj+6Hs=

Name: com/microsoft/aad/msal4j/RefreshTokenRequest.java

SHA-256-Digest: PX41HTe2gNARXkF6/3dwQ7DSCWhq/vtu9SdsaY6I9/E=

Name: com/microsoft/aad/msal4j/PublicApi.java

SHA-256-Digest: tJ2kmHI4Ph6Gg/k7PEoQZsQTdR0tjinuEgEDm7unRTY=

Name: com/microsoft/aad/msal4j/TelemetryConstants.java  
SHA-256-Digest: 4rU1779wt6Im4Xd131UBaC3SEa47/GGhlyGh4TTCOH0=

Name: com/microsoft/aad/msal4j/ClientCertificate.java  
SHA-256-Digest: HW4ASVUwHUSL1dRDZ4Vj3STjI9/ee4Zivo7oZ1zl6P4=

Name: com/microsoft/aad/msal4j/AadInstanceDiscovery.java  
SHA-256-Digest: nbeasX6TvQUsYFon2ULp61cut2DIcoiFQpeIQMaNBlo=

Name: com/microsoft/aad/msal4j/RequestContext.java  
SHA-256-Digest: Yc7etmt+lajEhKw4gHv00/UqhrWDKpq9AIzovtO49D0=

Name: com/microsoft/aad/msal4j/MsalServiceException.java  
SHA-256-Digest: pCz4ET11fPXXngJtnibf7yDOjedVAzm+volKTNeIubc=

Name: com/microsoft/aad/msal4j/InstanceDiscoveryResponse.java  
SHA-256-Digest: vClf9U/8Xt7oxVsG9pJzhIixPrEsQ/za72E8czOfI4r4=

Name: com/microsoft/aad/msal4j/IClientCertificate.java  
SHA-256-Digest: MIEadp/O1cHiXHxI5qn564svh/sHV17uvev93in+9gg=

Name: com/microsoft/aad/msal4j/TokenCacheAccessContext.java  
SHA-256-Digest: nL8tz5vMpt0Tu9ZQrwOEO/Je4lXqZ+osQLqztAEgysc=

Name: com/microsoft/aad/msal4j/ClientCredentialRequest.java  
SHA-256-Digest: HEJGgi4TY9GIQVvO7WVnhdi/gjDir4bZPr2kJ7nh110=

Name: com/microsoft/aad/msal4j/RefreshTokenCacheEntity.java  
SHA-256-Digest: oAtw21tWdrkgh+7JRdyCG+CirFZsGFTBd+cEWAaGLT4=

Name: com/microsoft/aad/msal4j/DeviceCode.java  
SHA-256-Digest: KeaJPlrFaCiGuRR6iX7dRb8PFjZmGD37H+ZpcZzSCaY=

Name: com/microsoft/aad/msal4j/IClientAssertion.java  
SHA-256-Digest: U/bXO/3ZA1aRncVCM3LcAU50I89xxhAvJFRQFfw7hMs=

Name: com/microsoft/aad/msal4j/HttpUtils.java  
SHA-256-Digest: WwBpDd8yOgbFHjlx/EKs5IPKgACdQPq/KZ6jISqJKcw=

Name: com/microsoft/aad/msal4j/NamespaceContextImpl.java  
SHA-256-Digest: ZZi9Dbf/t4MUL0VDN8SJMAtx3N9f79AqyQYh4okuWpg=

Name: com/microsoft/aad/msal4j/HttpHelper.java  
SHA-256-Digest: MMk565CCw6qfzXct56xNqUsJFZbIv/Q8L5hv+ygpDE=

Name: com/microsoft/aad/msal4j/TelemetryHelper.java  
SHA-256-Digest: f87cpjEqP/RdL1zFcarHGTMptOIr2zH0cpAAEZ96CCU=

Found in path(s):

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/META-INF/MSFTSIG.SF

No license file was found, but licenses were detected in source scan.

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// Licensed under the MIT License.

/\*\*

\* Interface to be implemented when configuring http client for { @link IPublicClientApplication } or

\* { @link IConfidentialClientApplication }.

\*/

Found in path(s):

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/com/microsoft/aad/msal4j/IHttpClient.java

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Built-By: VssAdministrator

Created-By: Apache Maven

Build-Jdk: 1.8.0\_102

Name: com/microsoft/aad/msal4j/AccessTokenCacheEntity.java

SHA-256-Digest: ZlMxHP9ex4HubDnywAUGin6BUPGPxgkyosnL/Rh9SaY=

Name: com/microsoft/aad/msal4j/DefaultHttpClient.java

SHA-256-Digest: CNE/eeBpZczySXYs+Fqcw/a/hV4xf8EtDni2VKuzk4=

Name: com/microsoft/aad/msal4j/ErrorResponse.java

SHA-256-Digest: qbgZOVsg8XodaMqre06gmE2XJFGfwepUwYPY5ZEtw4w=

Name: com/microsoft/aad/msal4j/SafeDocumentBuilderFactory.java

SHA-256-Digest: arnL2lMA8e1li31O6Q1LrKrU5uJXyXdfX14RwBRCWt0=

Name: com/microsoft/aad/msal4j/ITokenCacheAccessAspect.java

SHA-256-Digest: Jf/LJNJ5AAZuOBnapr7fVrW0AMukiNms4YI6z60hX5c=

Name: com/microsoft/aad/msal4j/ServiceBundle.java

SHA-256-Digest: w0dVeDI9fY0i9wcDgkZquXM8yq8dwjAuvaHQiH4tDUQ=

Name: com/microsoft/aad/msal4j/IPublicClientApplication.java

SHA-256-Digest: l9kyEXq08BACMLdPNnjEMd1qE5LCUs+N7S5ftTI/IBw=

Name: com/microsoft/aad/msal4j/Authority.java

SHA-256-Digest: rmK6acopYJZrPPVkJdFOV0VngsSMm24O9tp3VnbAJEg=

Name: com/microsoft/aad/msal4j/IHttpResponse.java

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Name: com/microsoft/aad/msal4j/HttpMethod.java  
SHA-256-Digest: avXBdeLGDx8Rjf0ITJoq/CyXwVU56J2W2uLCHXcwfFU=

Name: com/microsoft/aad/msal4j/ITelemetryManager.java  
SHA-256-Digest: IJjdxhNsJrH6NC7vCw7Pfa3a2oTWKneIzsc0wUpNk78=

Name: com/microsoft/aad/msal4j/IClientApplicationBase.java  
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Name: com/microsoft/aad/msal4j/TokenResponse.java  
SHA-256-Digest: iK2ZkwwPzRz1xAkuemYXgOrWnSW/VQtEhktGL0xVT7U=

Name: com/microsoft/aad/msal4j/ApiEvent.java  
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Name: com/microsoft/aad/msal4j/AADAuthority.java  
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SHA-256-Digest: lDKwVWJL2QUey/3ut0FOyixWkydWeklHa3PnS6SHkuw=

Name: com/microsoft/aad/msal4j/AuthenticationResultSupplier.java  
SHA-256-Digest: 1yioayP9iLpA/quWrP9McbHm3pLxI9KZ9XzD8u3zNM4=

Name: com/microsoft/aad/msal4j/Credential.java  
SHA-256-Digest: IIDwDZD6TC7xHNG0cUBXnINblNotYa70J3n/iJ22zdQ=

Name: com/microsoft/aad/msal4j/AccountsSupplier.java  
SHA-256-Digest: KYCIP557mSxV6rYjQ/9WcpDddGHFpmvuH8aIZZg44ks=

Name: com/microsoft/aad/msal4j/InstanceDiscoveryMetadataEntry.java  
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Name: com/microsoft/aad/msal4j/TokenCache.java  
SHA-256-Digest: klpVxcYDy4/oZRTjQiF1V8SkVGZV/aA/0gp9DrnnsY8=

Name: com/microsoft/aad/msal4j/ClientInfo.java  
SHA-256-Digest: 6ystpG0gEK3ZVuyvph2vk6GqD4ja1qawitNp660mXo0=

Name: com/microsoft/aad/msal4j/AbstractMsalAuthorizationGrant.java  
SHA-256-Digest: Ah1T34rfpxJp6VEzCquNziMWBzz/gWUvYyDuX5lOIZ0=

Name: com/microsoft/aad/msal4j/OnBehalfOfParameters.java  
SHA-256-Digest: Bxk+eVNLKv7RU87c6cR4sAPN2XV86TPRFck1V25I31M=

Name: com/microsoft/aad/msal4j/DeviceCodeFlowRequest.java  
SHA-256-Digest: Huya4Sev7jmWhH01nv7s55ro5cRJohvVvuQ/9Kcmu5Q=

Name: com/microsoft/aad/msal4j/SilentRequest.java  
SHA-256-Digest: WdWfww4oxLcKnd/KQPTJ/DxcuUdJW+99Z18QKVhniIk=

Name: com/microsoft/aad/msal4j/ParameterValidationUtils.java  
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Name: com/microsoft/aad/msal4j/JwtHelper.java  
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Name: com/microsoft/aad/msal4j/JsonHelper.java  
SHA-256-Digest: ntw4+bJDLPZHuGRokEeeYxmBCcnpIDVlzEiDfYsNtkE=

Name: com/microsoft/aad/msal4j/StringHelper.java  
SHA-256-Digest: 92kYZ/+pgqXVCj4qKhafrY6KX8+GrMbreZzyW0S32ds=

Name: com/microsoft/aad/msal4j/IClientSecret.java  
SHA-256-Digest: JigGXPnpy9sruwx9ZfNKg8lKuH2RGqx8p+Kiilequbc=

Name: com/microsoft/aad/msal4j/IAuthenticationResult.java  
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Name: com/microsoft/aad/msal4j/RemoveAccountRunnable.java  
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Name: com/microsoft/aad/msal4j/WSTrustResponse.java  
SHA-256-Digest: iKpS4Lkh+Jng58WEA75RqRjY3CZzTaqoCDTusMt6QS8=

Name: com/microsoft/aad/msal4j/AppMetadataCacheEntity.java  
SHA-256-Digest: ri1IK5AGNOdwBlkgDuHZ1PL+Xv3FRVE0f6Bkihtc+Dk=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthorizationGrant.java  
SHA-256-Digest: nUcuZc+zE2T8kZJI0+NhBZOiJxr5ilKH2eNyBK0OsfM=

Name: com/microsoft/aad/msal4j/TokenRequestExecutor.java  
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Name: com/microsoft/aad/msal4j/UserDiscoveryResponse.java  
SHA-256-Digest: huec/GJCvE6cW7fuyr948/b6YbWT3eKqnW9sFlGbpWY=

Name: com/microsoft/aad/msal4j/AuthorityType.java  
SHA-256-Digest: NsOmf2xgimzbZZ3fucTCOoI2pJrj/Kb2E78QfkZZdqQ=

Name: com/microsoft/aad/msal4j/AuthorizationCodeParameters.java  
SHA-256-Digest: pWSKsz6GTKCXh0FmPtlbeUxVfLLhOPMfirUpI4rzdpg=

Name: com/microsoft/aad/msal4j/IUserAssertion.java

SHA-256-Digest: HHcmDjKXLTMNOd6kWXB7A3li/zGhvWKOQaLAQPmuGRc=

Name: com/microsoft/aad/msal4j/Constants.java

SHA-256-Digest: i1O8SEMkUCUwTLbSM36y8Ag4K2J8VC1NBbN+7qYRh9Q=

Name: com/microsoft/aad/msal4j/UserNamePasswordRequest.java

SHA-256-Digest: +pSRXUhh79j+UsIWxb0jkWuOxEL8Qd/nIVx3tyMTWzM=

Name: com/microsoft/aad/msal4j/ClientCredentialFactory.java

SHA-256-Digest: puFfRlrXASk9mGFulRIZ41rmOcbv6rAbPwb9iKgCoo=

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SHA-256-Digest: df45mjE00xJcBR4+MhXwYmJPvyuhOuDgyYnbZADutjw=

Name: com/microsoft/aad/msal4j/DeviceCodeAuthorizationGrant.java

SHA-256-Digest: schyri61qVoxOGb4vwgBMqySCMjXe40s5yfiEbdAoCI=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationRequest.  
java

SHA-256-Digest: 86q02C5WOCiuQ5gaKJjppcke5Lh/Erk5SG63IVkZJBw=

Name: com/microsoft/aad/msal4j/CredentialTypeEnum.java

SHA-256-Digest: XTfuxPVj/UtKetbwmpngQkh5K9O1uNqszXW7aQhFIly=

Name: com/microsoft/aad/msal4j/UserAssertion.java

SHA-256-Digest: 9AcDeCV9cNIFAtB0c1/yD4f6XTVWQITCmwE/v/C+TJY=

Name: com/microsoft/aad/msal4j/AcquireTokenSilentSupplier.java

SHA-256-Digest: oj1A1lxj38AJM9gRF6q26sfgjGz3IH0wHXqMEpxIAJQ=

Name: com/microsoft/aad/msal4j/IClientApplication.java

SHA-256-Digest: 4ZB/TgYqJxRPJDzkDqGEZIEjzizIT+HGbbC0It+InKo=

Name: com/microsoft/aad/msal4j/ITelemetry.java

SHA-256-Digest: 2qFxtvOE0gO08L9uMSHvdG9ALQWHaLRFZnZ4mkNnATE=

Name: com/microsoft/aad/msal4j/AuthenticationResult.java

SHA-256-Digest: 8hTJSZXNfjiP4e6lioZpYi3mpvjwyo26XAPgTofdydw=

Name: com/microsoft/aad/msal4j/IHttpClient.java

SHA-256-Digest: A5OdJE5u1B17KGMVNgUdI4k8AcJThpFynFXAaFRwpTs=

Name: com/microsoft/aad/msal4j/SAML11BearerGrant.java

SHA-256-Digest: BPYFPbST3D3hxdGE+Oh9kRJWaMvYc6SQDBqQSGbSH7E=

Name: com/microsoft/aad/msal4j/WSTrustVersion.java

SHA-256-Digest: RemxxY6nzGRrwFvfJcUIOtU9S/s49KciQpSZ+tFT2CY=

Name: com/microsoft/aad/msal4j/BindingPolicy.java  
SHA-256-Digest: VVxiBKDU5o/FOseEkpn7TDM6ti2kTVT7tuN2Qm5aWds=

Name: com/microsoft/aad/msal4j/HttpEvent.java  
SHA-256-Digest: JQm4WoOhxhXG1WtDKzJBDfM6/Ex+4UcIT1rvVbOm/58=

Name: com/microsoft/aad/msal4j/HttpRequest.java  
SHA-256-Digest: XAqHDhMxmeLBreth+s5FloOGBfk7O7cPpxXfGkWDIxQ=

Name: com/microsoft/aad/msal4j/OnBehalfOfRequest.java  
SHA-256-Digest: gGyO9THxOOIVHspQ0E2BeT/V2dW85htQ4G+Me1ANLZo=

Name: com/microsoft/aad/msal4j/AccountCacheEntity.java  
SHA-256-Digest: JaymqBTrN1MLAcG3fqgefPT5yUPWdIpaAA/EgNiDqLw=

Name: com/microsoft/aad/msal4j/AuthenticationErrorMessage.java  
SHA-256-Digest: enDZE+VpIJih93wQC2Su+Qn9NRd4cwdaqjLz/fLobA=

Name: com/microsoft/aad/msal4j/IAccount.java  
SHA-256-Digest: cbqQg0/d88ST8htVXXW/KDTdvy805giC1wAluPQ9JQw=

Name: com/microsoft/aad/msal4j/LogHelper.java  
SHA-256-Digest: GkTJRCnChh7sUIOs8mJ4ARHfUPZr97VZ9z+v1TDDsVU=

Name: com/microsoft/aad/msal4j/MsalClientException.java  
SHA-256-Digest: UdZng5gyX0I9QXmYKqMcSkQ6o+VoQ5sWW+vLODN7tcs=

Name: com/microsoft/aad/msal4j/IdToken.java  
SHA-256-Digest: l/6l+HCsVuWAv50MhiRjd0JpuIscKoYGd2kacCHavPQ=

Name: com/microsoft/aad/msal4j/ConfidentialClientApplication.java  
SHA-256-Digest: X5ckS7IHx2ngS4QIjg+Fs9JDQ72n7f0AMO1o638Vvv4=

Name: com/microsoft/aad/msal4j/AuthorizationCodeRequest.java  
SHA-256-Digest: 63Ct05QAOSWWIbw/8CIsVZOS8vYTWITmU30RpfzGf0=

Name: com/microsoft/aad/msal4j/B2CAuthority.java  
SHA-256-Digest: IMAGrFP12aBmVqet8lFmHzhiD84MyRCmSZSgx23IYU=

Name: com/microsoft/aad/msal4j/SilentParameters.java  
SHA-256-Digest: IkIkmxO3VhciBnkue5rwb28QG0V0jpuHRkk8x/MR9Bg=

Name: com/microsoft/aad/msal4j/ClientAssertion.java  
SHA-256-Digest: HDRxa2m1iUhLo/ohu6m+CO+n5PBMWBBlaPvSKgAxO4k=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationParameters.java  
SHA-256-Digest: +YwPu5N7NRS4WIHG5vOQxdzr5AMy9VAPsV7c/VpZwt0=

Name: com/microsoft/aad/msal4j/InteractionRequiredExceptionReason.java  
SHA-256-Digest: 1qnSI+GCf7vnaPJAZjen3/6gp8pT/+IEzKMoZEby3No=

Name: com/microsoft/aad/msal4j/MsalServiceExceptionFactory.java  
SHA-256-Digest: p3Yash5nWOEmfZJmihQW/qyLJ0+/BlxzYt9Gm/7f6ig=

Name: com/microsoft/aad/msal4j/IdTokenCacheEntity.java  
SHA-256-Digest: g4/Ykp0qAeP4SkF8MT9IbVRYS+HxkluW1sOafQwNMx0=

Name: com/microsoft/aad/msal4j/OAuthHttpRequest.java  
SHA-256-Digest: vBAr5Bpd3LVsIe5CM7IJBpR89qvh4yAFxW/bigHAQZ8=

Name: com/microsoft/aad/msal4j/ITokenCacheAccessContext.java  
SHA-256-Digest: gTzp5HppZvVaQQGncqpPTmisiCaJahIzPCt2dJX7TEs=

Name: com/microsoft/aad/msal4j/TelemetryManager.java  
SHA-256-Digest: ybYTq/yx9GQPY2cT+mHKPmZ0PSMHWUJygNQ8dfXrZPg=

Name: com/microsoft/aad/msal4j/AcquireTokenByAuthorizationGrantSupplier.java  
SHA-256-Digest: vGTT07bdFccfXPq0F8pi61NJNnP8Nfi1/kkh/iRxY3M=

Name: com/microsoft/aad/msal4j/ClientCredentialParameters.java  
SHA-256-Digest: niY7yqzjFOwrNI/boJ9Ikw/4ml1B+TJhIyu52eDLkgk=

Name: com/microsoft/aad/msal4j/HttpHeaders.java  
SHA-256-Digest: VkTC+H/eRNpIIIaNBxgF6z0Vdy7rkiaZHIO9UxPJFOA=

Name: com/microsoft/aad/msal4j/ClientApplicationBase.java  
SHA-256-Digest: 5s7Ww1j+7bK9gko4CwZqkJFpHkF/Tx6a3joSrnvjnts=

Name: com/microsoft/aad/msal4j/OAuthAuthorizationGrant.java  
SHA-256-Digest: y1MZ/ZFHH0ocwog1pkiik3F6YiKRNNet+WLyVjJVNtY=

Name: com/microsoft/aad/msal4j/MsalException.java  
SHA-256-Digest: RtCMTu5dOF7xE01ySLs0uZeOC1FBfwvuPLGFznBHy6c=

Name: com/microsoft/aad/msal4j/ClientAuthenticationPost.java  
SHA-256-Digest: xnAu4zduJCwasi1jDTHUyyLpyHISsIvCyd0VuRffxpI=

Name: com/microsoft/aad/msal4j/MsalRequest.java  
SHA-256-Digest: LxkzmCgIawy4B13u5oq+d86GwKRgEEPgGd/Dt8UBY1U=

Name: com/microsoft/aad/msal4j/AuthenticationErrorCode.java  
SHA-256-Digest: ZrU+AX3EqBJ9dyCROrNODcZYHmRZi8Kmmryn1YWG4Gk=

Name: com/microsoft/aad/msal4j/Account.java

SHA-256-Digest: FCtaS5IH4yC174S2SULxKRP5WJZbBytLQrK7uBvrU7o=

Name: com/microsoft/aad/msal4j/ADFSAuthority.java

SHA-256-Digest: gEZou9BsOE0+RXr2PnkwOe+CUdGIDNzsNBmCJ/wDRDE=

Name: com/microsoft/aad/msal4j/ITokenCache.java

SHA-256-Digest: cd8fP5DIfhFCiPm1LKkjbRjJL317Et6ASkTHucA4K8A=

Name: com/microsoft/aad/msal4j/RefreshTokenParameters.java

SHA-256-Digest: elleWSGmf1gZeYU5OQTgFlXympoM78+XTqu1X+ySJ/k=

Name: com/microsoft/aad/msal4j/XmsClientTelemetryInfo.java

SHA-256-Digest: xSIgnwb01cn703DyTD30Y4X9C3sbo6lKFKDhuBZszh8=

Name: com/microsoft/aad/msal4j/EventKey.java

SHA-256-Digest: jWVC4LSx/TycuAkKB6fw2T2Pp7U2GWiEmT15IJ/CNpg=

Name: com/microsoft/aad/msal4j/DefaultEvent.java

SHA-256-Digest: skJFf3PXiW7EmyJhPinoqr4TSlspre1sqAu7zoOY/Fg=

Name: com/microsoft/aad/msal4j/UserNamePasswordParameters.java

SHA-256-Digest: paz/R+V0MDSdQsL//t46Zx0psdDXSGev86W0Bk17RJ8=

Name: com/microsoft/aad/msal4j/PublicClientApplication.java

SHA-256-Digest: f6F8qOsEu1RdSaherMHAOU6k9ZXDAJCb1foyAZ/j4BE=

Name: com/microsoft/aad/msal4j/DeviceCodeFlowParameters.java

SHA-256-Digest: U4o0CyoYs90T+L9W6lBY+LVTcK1k5wULCgO1mUU7hIk=

Name: com/microsoft/aad/msal4j/AcquireTokenByDeviceCodeFlowSupplier.java

SHA-256-Digest: HQlxizqiGdrCMdDBiDr0yetV5ykZgkDBwWc5wmRjH0Q=

Name: com/microsoft/aad/msal4j/MexParser.java

SHA-256-Digest: IJh3ZauFhfGx9riGH7M9tiHiEs3KObbkb0hR1siY4=

Name: com/microsoft/aad/msal4j/WSTrustRequest.java

SHA-256-Digest: ks/RKFA8nTF+RLtvpGiTNsv2tA4whpjscPOLjzUywo=

Name: com/microsoft/aad/msal4j/Event.java

SHA-256-Digest: 2uhNqQGg0CLLQ0t3IOnMcau//SWA3ZTdwUqkQMM5W2U=

Name: com/microsoft/aad/msal4j/ClientSecret.java

SHA-256-Digest: RIOzAqzY938oFKRZIiu8pTYmiv+dATb/oV98RIWJ3p0=

Name: com/microsoft/aad/msal4j/IClientCredential.java

SHA-256-Digest: maIptKrQvO1PAqkvb6SuOSjzufYL+aJJW/7h56M1ujA=

Name: com/microsoft/aad/msal4j/MsalInteractionRequiredException.java

SHA-256-Digest: u+efsqhqwgu/k3Fonl5S4Igr7hr6fsX1/2VMblCnpik=

Name: com/microsoft/aad/msal4j/RefreshTokenRequest.java

SHA-256-Digest: Yj89vVNFZtaX0nq2q6+s8PCsNL13eyn4IOCnbumQw90=

Name: com/microsoft/aad/msal4j/PublicApi.java

SHA-256-Digest: FaCeukn2hq7JEP7Z3Q6xoeoGhvAlQK7/DByLPkEfiQw=

Name: com/microsoft/aad/msal4j/TelemetryConstants.java

SHA-256-Digest: 6oQPI3troJbK2nJOGxPSOmuoJ5fhW7QSI+sgAIpwDJ4=

Name: com/microsoft/aad/msal4j/ClientCertificate.java

SHA-256-Digest: cQvwC0r+6lpWBoPofs3MGbZ3WVENCiv2jHUS0TKZDRA=

Name: com/microsoft/aad/msal4j/AadInstanceDiscovery.java

SHA-256-Digest: ouGqsDjtQfCC7L3SDdCxhKJh0pBM5wO600DMig2fDfw=

Name: com/microsoft/aad/msal4j/RequestContext.java

SHA-256-Digest: Ed+3CUF9GzdHKI5Aa9p/8ds2pLZhUQwii0Hy5L82NHk=

Name: com/microsoft/aad/msal4j/MsalServiceException.java

SHA-256-Digest: dQvrSjY3XA9ZoAxDi6XY5O6LtDamxE5ISqp9TyiLYhI=

Name: com/microsoft/aad/msal4j/InstanceDiscoveryResponse.java

SHA-256-Digest: dkwWIXWMtgxY9C6WTcgorFagNoI+L3fevC4gNcSozgE=

Name: com/microsoft/aad/msal4j/IClientCertificate.java

SHA-256-Digest: Jqh6OC0Sd0ytiiEJ/10dQISWJCrqwof+I7dU14DIMiE=

Name: com/microsoft/aad/msal4j/TokenCacheAccessContext.java

SHA-256-Digest: U3hU4L8PEhth4o9o7tMN0f1hdj66CUCm/BTpuv3UqRI=

Name: com/microsoft/aad/msal4j/ClientCredentialRequest.java

SHA-256-Digest: TaErM2lzt4j372XS0cO+PK0T7vkYaXZMiUS4oBbmsTk=

Name: com/microsoft/aad/msal4j/RefreshTokenCacheEntity.java

SHA-256-Digest: mrECwTcB5qbls91IqOfQlAIzx1aDdxjMZGtQYOTRrWI=

Name: com/microsoft/aad/msal4j/DeviceCode.java

SHA-256-Digest: 58hwc+jZ5hXNRygD2mEB1Pn53O/ZVADr7X+vyfDv0pc=

Name: com/microsoft/aad/msal4j/IClientAssertion.java

SHA-256-Digest: UlkEpmJjw2sefmK9k+I6JmSokua7P/mtwSrK1pTkwsK=

Name: com/microsoft/aad/msal4j/HttpUtils.java

SHA-256-Digest: cEmiiuYnQDPn6FheHJ+UDn1xMCHIPe9RI7zmv1jORSs=

Name: com/microsoft/aad/msal4j/NamespaceContextImpl.java  
SHA-256-Digest: fbr9Rvsx/ZWcKH4qpaAyHv0OnWDPekL8RG7avpg/aNg=

Name: com/microsoft/aad/msal4j/HttpHelper.java  
SHA-256-Digest: K/abmR9IvkGNR3e767wI8oBOVKtqGACuB6/9GOwOec=

Name: com/microsoft/aad/msal4j/TelemetryHelper.java  
SHA-256-Digest: 9TwlF2bp3Q4UwP0VInUvt/t926R+IL6BHE+HUU0aAvk=

Found in path(s):

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-jar/META-INF/MANIFEST.MF

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/\*\*

\* Interface representing a confidential client application (Web App, Web API, Daemon App).

\* Confidential client applications are trusted to safely store application secrets, and therefore

\* can be used to acquire tokens in then name of either the application or an user.

\* For details see <https://aka.ms/msal4jclientapplications>

\*/

/\*\*

\* Acquires tokens from the authority configured in the application, for the confidential client

\* itself

\* @param parameters instance of { @link ClientCredentialParameters }

\* @return { @link CompletableFuture } containing an { @link IAuthenticationResult }

\*/

/\*\*

\* Acquires an access token for this application (usually a Web API) from the authority configured

\* in the application, in order to access another downstream protected Web API on behalf of a user

\* using the On-Behalf-Of flow. This confidential client application was itself called with a token

\* which will be provided in the { @link UserAssertion } to the { @link OnBehalfOfParameters }

\* @param parameters instance of { @link OnBehalfOfParameters }

\* @return { @link CompletableFuture } containing an { @link IAuthenticationResult }

\*/

Found in path(s):

\* /opt/cola/permits/1256060467\_1642635517.64/0/msal4j-1-2-0-sources-

jar/com/microsoft/aad/msal4j/IConfidentialClientApplication.java

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/\*\*

\* Object containing parameters for refresh token request. Can be used as parameter to

\* { @link PublicClientApplication#acquireToken(RefreshTokenParameters) } or to



```
* {@link ConfidentialClientApplication#acquireToken(RefreshTokenParameters)}
*/
```

Found in path(s):

```
* /opt/cola/permits/1256060467_1642635517.64/0/msal4j-1-2-0-sources-
jar/com/microsoft/aad/msal4j/RefreshTokenParameters.java
```

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```
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```

```
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```

```
/**
```

```
* Class to be used to acquire tokens for confidential client applications (Web Apps, Web APIs,
* and daemon applications).
```

```
*/
```

```
/**
```

```
 * Creates instance of Builder of ConfidentialClientApplication
```

```
 *
```

```
 * @param clientId Client ID (Application ID) of the application as registered
 * in the application registration portal (portal.azure.com)
```

```
 * @param clientCredential The client credential to use for token acquisition.
```

```
 *
```

```
 * @return instance of Builder of ConfidentialClientApplication
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1256060467_1642635517.64/0/msal4j-1-2-0-sources-
jar/com/microsoft/aad/msal4j/ConfidentialClientApplication.java
```

## 1.107 quality-check 1.3

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Found in path(s):

- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalPatternArgumentException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalRangeException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalNotGreaterOrEqualThanException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalNumberArgumentException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalNegativeArgumentException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/Check.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalNullElementsException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalNullArgumentException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/RuntimeException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalNotNullArgumentException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/NumberInRange.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalMissingAnnotationException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/Throws.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalPositionIndexException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalInstanceOfArgumentException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/ArgumentsChecked.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalNotLesserThanException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalPositiveArgumentException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalNaNArgumentException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalNumberRangeException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalArgumentNotContainedException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalEmptyArgumentException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-jar/net/sf/qualitycheck/exception/IllegalNumericArgumentException.java
- \* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-

jar/net/sf/qualitycheck/exception/IllegalNotGreaterThanException.java  
\* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-  
jar/net/sf/qualitycheck/exception/IllegalNotEqualException.java  
\* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-  
jar/net/sf/qualitycheck/exception/IllegalStateOfArgumentException.java  
\* /opt/cola/permits/1110944897\_1606873389.6/0/quality-check-1-3-sources-1-  
jar/net/sf/qualitycheck/ConditionalCheck.java

# 1.108 freemarker 2.3.31

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## 1.112 metrics 4.1.26

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics

Build-Jdk: 1.8.0\_302

Built-By: runner  
Bundle-Description: Metrics is a Java library which gives you unparalleled insight into what your code does in production. Metrics provides a powerful toolkit of ways to measure the behavior of critical components in your production environment.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Core  
Bundle-SymbolicName: io.dropwizard.metrics.core  
Bundle-Version: 4.1.26  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics;uses:="org.slf4j";version="4.1.26"  
"  
Implementation-Title: Metrics Core  
Implementation-URL: <https://metrics.dropwizard.io/metrics-core>  
Implementation-Vendor-Id: io.dropwizard.metrics  
Implementation-Version: 4.1.26  
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"  
Private-Package: com.codahale.metrics  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1221016569\_1645091946.67/0/metrics-core-4-1-26-jar/META-INF/MANIFEST.MF

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# 1.114 joda-time 2.10.6

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# 1.115 hibernate-validator 5.0.2.Final

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# 1.116 javax-activation 1.2.0

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```

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```

```
signature of Ty Coon, 1 April 1989
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Specification: JSR-925 JavaBeans Activation Framework ("Specification")

<br/>

Version: 1.2

<br/>

Status: Maintenance Release

<br/>

Specification Lead: Oracle America, Inc. ("Specification Lead")

<br/>

Release: July 2017

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# 1.117 swagger-annotations 1.5.21

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```

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

 /**
 * The name of the license.
 *
 * @return the name of the license
 */
 String name();

 /**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
 String url() default "";
}

```

## 1.118 accessors-smart 1.2

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/*
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- \*/

Found in path(s):

- \* /opt/cola/permits/1177937262\_1625568439.63/0/accessors-smart-1-2-sources-5-jar/net/minidev/asm/BeansAccess.java
- \* /opt/cola/permits/1177937262\_1625568439.63/0/accessors-smart-1-2-sources-5-jar/net/minidev/asm/DynamicClassLoader.java
- \* /opt/cola/permits/1177937262\_1625568439.63/0/accessors-smart-1-2-sources-5-jar/net/minidev/asm/Accessor.java
- \* /opt/cola/permits/1177937262\_1625568439.63/0/accessors-smart-1-2-sources-5-jar/net/minidev/asm/ASMUtil.java

## 1.119 dnsjava 2.1.7

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## 1.122 asm-analysis 7.1

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\* /opt/cola/permits/1135892660\_1613626660.05/0/asm-analysis-7-1-sources-2-  
jar/org/objectweb/asm/tree/analysis/package.html

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/**
 * Constructs a new { @link SourceInterpreter} for the latest ASM API version. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the { @link #SourceInterpreter(int)}
 * version.
 */
```

Found in path(s):

\* /opt/cola/permits/1135892660\_1613626660.05/0/asm-analysis-7-1-sources-2-  
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jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
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jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
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jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/Frame.java
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jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
```

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```
* Constructs a new {@link BasicInterpreter} for the latest ASM API version. <i>Subclasses must
* not use this constructor</i>. Instead, they must use the {@link #BasicInterpreter(int)}
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135892660_1613626660.05/0/asm-analysis-7-1-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
```

# 1.123 jedis 3.3.0

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\* /opt/ws\_local/PERMITS\_SQL/1047560748\_1590497249.67/0/jedis-3-3-0-sources-  
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jar/redis/clients/jedis/util/MurmurHash.java

# 1.124 jackson-mapper-asl 1.9.2

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/\* Jackson JSON-processor.

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\* /opt/ws\_local/PERMITS\_SQL/1078377000\_1597297561.19/0/jackson-mapper-asl-1-9-2-sources-1-jar/org/codehaus/jackson/map/MappingJsonFactory.java

# 1.125 log4j-api 2.17.0

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## 1.129 spring-cloud-starter-consul-config 3.0.4

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Found in path(s):

- \* /opt/cola/permits/1222421669\_1644998496.95/0/spring-cloud-starter-consul-config-3-0-4-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-consul-config/pom.xml



# 1.130 jersey-server 1.19.1

## 1.131 classgraph 4.8.21

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```
/*
 * This file is part of ClassGraph.
 *
 * Author: Luke Hutchison (luke.hutch@gmail.com)
 *
 * Hosted at: https://github.com/classgraph/classgraph
 *
 * --
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```

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```
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/ResourceList.java
```

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```
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 *
 * Author: Luke Hutchison
 *
 * Hosted at: https://github.com/classgraph/classgraph
 *
 * --
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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/MethodParameterInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/ScanResult.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/ScanResultObject.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/fastzipfilereader/RecyclableInflater.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/Utils/InputStreamOrByteBufferAdapter.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/ModuleInfo.java
* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/io/github/classgraph/BaseTypeSignature.java
```

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ObjectTypedValueWrapper.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClasspathElementModule.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationParameterValueList.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/types/ParseException.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/TypeArgument.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/ClassFields.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/concurrency/InterruptedException.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/MethodInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationClassRef.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassRefTypeSignature.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/urls/URLPathEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/ScanSpec.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/concurrency/SingletonMap.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/MappableInfoList.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/HasName.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModuleRef.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/ClassFieldCache.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassGraphException.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/NestedJarHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassTypeSignature.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderAndModuleFinder.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassGraph.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModuleReaderProxy.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/FieldTypeInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/InfoList.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/TomcatWebappClassLoaderBaseHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/Resource.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/HierarchicalTypeSignature.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/PackageInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/Utils/CollectionUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONSerializer.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/types/TypeUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/TypeSignature.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/TypeParameter.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandlerRegistry.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/OSGiDefaultClassLoaderHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/WeblogicClassLoaderHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ReferenceTypeSignature.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClasspathElementZip.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationParameterValue.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/Utils/FastPathResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONDeserializer.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderOrder.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModulePathInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClasspathElement.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationEnumValue.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassGraphClassLoader.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/URLClassLoaderHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/PlexusClassWorldsClassRealmClassLoaderHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/Utils/Join.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ModuleInfoList.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/CallStackReader.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/JPMSCClassLoaderHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/Utils/ReflectionUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/PackageInfoList.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/Id.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/FieldInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/ParameterizedTypeImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONArray.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/Scanner.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/GraphvizDotfileGenerator.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/recycler/Recycler.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/FieldInfoList.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/types/Parser.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/AnnotationInfoList.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/Utils/JarUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/Utils/FileUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/MethodTypeSignature.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/Utils/LogNode.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/Classfile.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSliceReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassInfoList.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/recycler/RecycleOnClose.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/JSONObject.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSlice.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/LogicalZipFile.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/FastZipEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/Utils/VersionFinder.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/recycler/Resettable.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/TypeVariableSignature.java

\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ArrayTypeSignature.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/MethodInfoList.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/FallbackClassLoaderHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/json/TypeResolutions.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/io/github/classgraph/ClasspathElementDir.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/WhiteBlackList.java  
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```
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* This file is part of ClassGraph.
*
* Author: Sergey Beshpalov
*
* Hosted at: https://github.com/classgraph/classgraph
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\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/classloaderhandler/WebsphereTraditionalClassLoaderHandler.java  
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\* This file is part of ClassGraph.

\*

\* Author: @jacobg on GitHub

\*

\* Hosted at: <https://github.com/classgraph/classgraph>

\*

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\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/META-INF/maven/io.github.classgraph/classgraph/pom.xml



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 *
 * Author: Luke Hutchison
 *
 * Hosted at: https://github.com/classgraph/classgraph
 *
 * --
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* /opt/ws_local/PERMITS_SQL/1023248131_1591358362.39/0/classgraph-4-8-21-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/JBossClassLoaderHandler.java
```

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 * This file is part of ClassGraph.
 *
 * Author: Michael J. Simons
 *
 * Hosted at: https://github.com/classgraph/classgraph
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\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-  
jar/nonapi/io/github/classgraph/classloaderhandler/SpringBootRestartClassLoaderHandler.java  
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\* Author: Harith Elrifaie  
\*  
\* Hosted at: <https://github.com/classgraph/classgraph>  
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jar/nonapi/io/github/classgraph/classloaderhandler/FelixClassLoaderHandler.java  
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\* This file is part of ClassGraph.  
\*  
\* Author: Johnno Crawford (johnno@sulake.com)  
\*  
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\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/concurrency/AutoCloseableExecutorService.java  
\* /opt/ws\_local/PERMITS\_SQL/1023248131\_1591358362.39/0/classgraph-4-8-21-sources-jar/nonapi/io/github/classgraph/concurrency/SimpleThreadFactory.java  
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\* This file is part of ClassGraph.

\*

\* Author: R. Kempees

\*

\* Hosted at: <https://github.com/classgraph/classgraph>

\*

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# 1.132 common-config 5.3.0

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```
* /opt/cola/permits/1257811198_1646348825.22/0/common-config-5-3-0-jar/META-
INF/maven/io.confluent/common-config/pom.xml
```

# 1.133 j2objc-annotations 1.3

# 1.134 log4j-over-slf4j 1.7.32

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* /opt/cola/permits/1198379913_1630347367.42/0/log4j-over-slf4j-1-7-32-jar/META-INF/maven/org.slf4j/log4j-
over-slf4j/pom.xml
```

# 1.135 netty-transport-native-epoll 4.1.69.Final

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 */
```

Found in path(s):

```
* /opt/cola/permits/1265673609_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-
jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/cola/permits/1265673609_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-
jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1265673609_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-
jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1265673609_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-
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/\*\*

\* Set the { @code TCP\_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.

\* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

\* Allowing them being read would mean anyone with access to the channel could get them.

\*/

/\*\*

\* Set the { @code TCP\_QUICKACK } option on the socket.

\* See [TCP\\_QUICKACK](https://linux.die.net/man/7/tcp)

\* for more details.

\*/

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\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io.netty/channel/epoll/EpollSocketChannelConfig.java

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\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/netty\_epoll\_native.c  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/Native.java  
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\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/EpollMode.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java



\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java  
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\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java  
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```

```
*/
```

```
/**
```

```
 * Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
```

```
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
```

```
 * Allowing them being read would mean anyone with access to the channel could get them.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1265673609_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-
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*/
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```
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```

jar/io/netty/channel/epoll/EpollEventLoop.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-  
jar/io/netty/channel/epoll/EpollSocketChannel.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-  
jar/io/netty/channel/epoll/package-info.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-  
jar/io/netty/channel/epoll/EpollEventLoopGroup.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-  
jar/io/netty/channel/epoll/EpollDatagramChannel.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-  
jar/io/netty/channel/epoll/Epoll.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-  
jar/io/netty/channel/epoll/EpollChannelOption.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-  
jar/io/netty/channel/epoll/AbstractEpollChannel.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-  
jar/io/netty/channel/epoll/EpollServerSocketChannel.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-  
jar/io/netty/channel/epoll/EpollTcpInfo.java  
\* /opt/cola/permits/1265673609\_1643932648.66/0/netty-transport-native-epoll-4-1-69-final-sources-  
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java

## 1.136 commons-lang3 3.11

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* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_socket.h
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_socket.c
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* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_errors.c
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* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
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* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_limits.h
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_limits.c
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_util.h
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
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\* /opt/cola/permits/1265673543\_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java  
\* /opt/cola/permits/1265673543\_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-jar/io/netty/channel/unix/SegmentedDatagramPacket.java  
\* /opt/cola/permits/1265673543\_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-jar/io/netty/channel/unix/DomainDatagramChannel.java  
\* /opt/cola/permits/1265673543\_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java

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\* /opt/cola/permits/1265673543\_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-jar/netty\_unix.h  
\* /opt/cola/permits/1265673543\_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-jar/netty\_unix.c

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* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_buffer.h
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_buffer.c
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
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* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml
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```
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/netty_unix_jni.h
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/UnixChannelUtil.java
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jar/io/netty/channel/unix/package-info.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/IovArray.java
* /opt/cola/permits/1265673543_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-
jar/io/netty/channel/unix/UnixChannelOption.java
```

\* /opt/cola/permits/1265673543\_1643922092.65/0/netty-transport-native-unix-common-4-1-69-final-sources-jar/io/netty/channel/unix/Unix.java

# 1.138 netty-transport-native-kqueue

## 4.1.69.Final

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* /opt/cola/permits/1223884368_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueDomainDatagramChannelConfig.java
* /opt/cola/permits/1223884368_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueDatagramChannel.java
* /opt/cola/permits/1223884368_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueDomainDatagramChannel.java
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- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueChannelOption.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/AcceptFilter.java
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- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueChannel.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/netty\_kqueue\_eventarray.c
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/Native.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/package-info.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannel.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueEventArray.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueChannelConfig.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/NativeLongArray.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueue.java
- \* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-

jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java  
\* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java  
\* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java  
\* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/netty\_kqueue\_bsdsocket.h  
\* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/BsdSocket.java  
\* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java  
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\* /opt/cola/permits/1223884368\_1635968876.17/0/netty-transport-native-kqueue-4-1-69-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java  
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## 1.139 hystrix-core 1.5.18

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jar/com/amazonaws/services/cognitoidp/model/AccountTakeoverRiskConfigurationType.java
* /opt/cola/permits/1255512452_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-
jar/com/amazonaws/services/cognitoidp/model/transform/DescribeIdentityProviderRequestProtocolMarshaller.java
* /opt/cola/permits/1255512452_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-
jar/com/amazonaws/services/cognitoidp/model/transform/CreateUserImportJobResultJsonUnmarshaller.java
* /opt/cola/permits/1255512452_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-
jar/com/amazonaws/services/cognitoidp/model/CreateResourceServerRequest.java
* /opt/cola/permits/1255512452_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-
jar/com/amazonaws/services/cognitoidp/model/AdminSetUserPasswordResult.java
* /opt/cola/permits/1255512452_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-
jar/com/amazonaws/services/cognitoidp/model/UnsupportedIdentityProviderException.java
* /opt/cola/permits/1255512452_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-
jar/com/amazonaws/services/cognitoidp/model/transform/EmailConfigurationTypeMarshaller.java
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jar/com/amazonaws/services/cognitoidp/model/transform/MFAOptionTypeJsonUnmarshaller.java
```

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\* /opt/cola/permits/1255512452\_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-jar/com/amazonaws/services/cognitoidp/model/transform/UICustomizationTypeJsonUnmarshaller.java

\* /opt/cola/permits/1255512452\_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-jar/com/amazonaws/services/cognitoidp/model/transform/CreateGroupResultJsonUnmarshaller.java

\* /opt/cola/permits/1255512452\_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-jar/com/amazonaws/services/cognitoidp/model/transform/UpdateUserAttributesRequestProtocolMarshaller.java

\* /opt/cola/permits/1255512452\_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-jar/com/amazonaws/services/cognitoidp/model/AddCustomAttributesResult.java

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\* /opt/cola/permits/1255512452\_1642559226.29/0/aws-java-sdk-cognitoidp-1-11-868-sources-jar/com/amazonaws/services/cognitoidp/model/AdminSetUserPasswordRequest.java

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jar/com/amazonaws/services/cognitoidp/model/ConfirmDeviceRequest.java

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## 1.141 javassist 3.27.0-GA

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- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
- \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java

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\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-



jar/io/netty/buffer/SizeClasses.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/search/package-info.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/SizeClassesMetric.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/LongLongHashMap.java  
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jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/PoolSubpageMetric.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/HeapByteBufUtil.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/PoolArenaMetric.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/UnsafeByteBufUtil.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/PoolChunkMetric.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/UnpooledSlicedByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/PoolChunkListMetric.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java

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\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java

\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java

\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java

\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java

\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-

jar/io/netty/buffer/WrappedCompositeByteBuf.java  
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jar/io/netty/buffer/PooledDuplicatedByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java  
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jar/io/netty/buffer/WrappedByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/EmptyByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/AbstractDerivedByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/DefaultByteBufHolder.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/ByteBufHolder.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/ReadOnlyByteBufferBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-  
jar/io/netty/buffer/FixedCompositeByteBuf.java

\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/UnreleasableByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java  
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\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/search/MultiSearchProcessorFactory.java

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\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/search/SearchProcessorFactory.java

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jar/io/netty/buffer/PooledByteBufAllocatorMetric.java  
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jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java  
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\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/PooledDirectByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/PooledByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/ByteBufUtil.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/PoolChunk.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/AbstractByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/PooledByteBufAllocator.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/PoolThreadCache.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/AbstractByteBufAllocator.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/PoolSubpage.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/package-info.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/UnpooledByteBufAllocator.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/UnpooledDirectByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/CompositeByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/UnpooledHeapByteBuf.java

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\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/ByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/SwappedByteBuf.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/ByteBufInputStream.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/PoolArena.java  
\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/ByteBufOutputStream.java  
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\* /opt/cola/permits/1265673620\_1643932634.48/0/netty-buffer-4-1-69-final-sources-jar/io/netty/buffer/PoolChunkList.java

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\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-jar/com/esri/core/geometry/OperatorInternalRelationUtils.java

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== Contributors ==

- \* Tatu Saloranta
  - \* Providing benchmark suite
- \* Alec Wysoker
  - \* Performance and memory usage improvement

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# 1.148 jackson-datatype-joda 2.13.0

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# 1.149 commons-logging 1.2

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\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java

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*/opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/ServletContextCleaner.java
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# 1.150 activation 1.2.0

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```
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```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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# 1.152 spring-cloud-consul-config 3.0.4

## 1.152.1 Available under license :

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 */
```

Found in path(s):

```
*/opt/cola/permits/1222421590_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-
jar/org/springframework/cloud/consul/config/ConsulRetryBootstrapper.java
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```

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 */
```

Found in path(s):

\* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulConfigDataMissingEnvironmentPostProcessor.java  
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Found in path(s):

\* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulPropertySources.java

\* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulConfigDataResource.java

\* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulBootstrapper.java

\* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulConfigIndexes.java

\* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulConfigDataLoader.java

\* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulConfigDataLocationResolver.java

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Found in path(s):

- \* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulConfigAutoConfiguration.java
- \* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulFilesPropertySource.java
- \* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulConfigBootstrapConfiguration.java
- \* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulConfigProperties.java
- \* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/PropertySourcesLocatedEvent.java
- \* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulPropertySource.java
- \* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConfigWatch.java
- \* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/org/springframework/cloud/consul/config/ConsulPropertySourceLocator.java

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- \* /opt/cola/permits/1222421590\_1635579093.08/0/spring-cloud-consul-config-3-0-4-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-consul-config/pom.xml

## 1.153 aws-java-sdk-s3 1.11.415

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```
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/internal/crypto/SecuredCEK.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/internal/crypto/KMSSecuredCEK.java
```

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*/
```

```
/**
 * Gets the optional versionIdMarker parameter indicating where in the
 * sorted list of all versions in the specified bucket to begin returning
 * results. Results are always ordered first lexicographically (i.e.
 * alphabetically) and then from most recent version to least recent
 * version.
 *
 * <p>
 * A key marker must be specified when specifying a versionIdMarker.
 * Results begin immediately after the version with the specified key and
 * version ID.
 *
 * </p>
 *
 * @return The optional versionIdMarker parameter indicating where in the
 * sorted list of all versions in the specified bucket to begin
 * returning results.
 *
 * @see ListVersionsRequest#setVersionIdMarker(String)
```

\* @see ListVersionsRequest#withVersionIdMarker(String)

\*/

Found in path(s):

\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/ListVersionsRequest.java

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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/auth/S3SignerProvider.java

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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-

jar/com/amazonaws/services/s3/model/WebsiteConfiguration.java  
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```
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/BucketAccelerateConfiguration.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/transform/ProgressStaxUnmarshaller.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/GetBucketNotificationConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/transform/S3KeyFilterStaxUnmarshaller.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/SSEAlgorithm.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/ReplicationRule.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/transform/BucketNotificationConfigurationStaxUnmarshaller.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/internal/CompleteMultipartUploadRetryablePredicate.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/transform/TopicConfigurationStaxUnmarshaller.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/ReplicationDestinationConfig.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/ReplicationRuleStatus.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/GetBucketReplicationConfigurationRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/SetObjectAclRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/model/GetS3AccountOwnerRequest.java
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
```



jar/com/amazonaws/services/s3/model/transform/LambdaConfigurationStaxUnmarshaller.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/request/S3HandlerContextKeys.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/transfer/TransferCompletionFilter.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/QueueConfigurationStaxUnmarshaller.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/DeleteBucketReplicationConfigurationRequest.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/FilterRule.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/HeadBucketResult.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/HeadBucketResultHandler.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/GetBucketEncryptionStaxUnmarshaller.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/SetBucketAccelerateConfigurationRequest.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/FilterRuleStaxUnmarshaller.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/NotificationConfigurationStaxUnmarshaller.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/ServerSideEncryptionByDefaultStaxUnmarshaller.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/ServerSideEncryptionRuleStaxUnmarshaller.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/CompleteMultipartUploadRetryCondition.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/StatsStaxUnmarshaller.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/transfer/exception/FileLockException.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/S3KeyFilter.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/Filter.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/LambdaConfiguration.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/AbstractAmazonS3.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/FilterStaxUnmarshaller.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/BucketReplicationConfiguration.java  
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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/eventstreaming/Checksums.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/eventstreaming/Prelude.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/eventstreaming/HeaderValue.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/eventstreaming/Message.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/eventstreaming/HeaderType.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/eventstreaming/Utils.java  
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jar/com/amazonaws/services/s3/model/KMSEncryptionMaterials.java

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// The Amazon S3 DevPay token header is a special exception and can be safely moved

Found in path(s):

\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-

jar/com/amazonaws/services/s3/AmazonS3Client.java

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jar/com/amazonaws/services/s3/AmazonS3ClientParamsWrapper.java

\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-

jar/com/amazonaws/services/s3/internal/InitiateMultipartUploadHeaderHandler.java

\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-

jar/com/amazonaws/services/s3/model/Tier.java

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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/replication/ReplicationTagPredicate.java

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/**
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```
* Interface for providing encryption materials.
* Implementations are free to use any strategy for providing encryption
* materials, such as simply providing static material that doesn't change,
* or more complicated implementations, such as integrating with existing
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jar/com/amazonaws/services/s3/transfer/PauseResult.java
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- \* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/crypto/MultipartUploadCryptoContext.java
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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/S3ObjectId.java

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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/auth/ChunkContentIterator.java

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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/transfer/DownloadCallable.java

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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/GetBucketVersioningConfigurationRequest.java

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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/transfer/MultipleFileUpload.java

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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/ResponseHeaderHandlerChain.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/SetBucketNotificationConfigurationRequest.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/BucketCrossOriginConfiguration.java  
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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/transfer/internal/CopyMonitor.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/internal/ServerSideEncryptionResult.java  
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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/CORSRule.java  
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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-jar/com/amazonaws/services/s3/model/MultiObjectDeleteException.java  
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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/metrics/S3ServiceMetric.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/auth/policy/resources/S3BucketResource.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/AbortMultipartUploadRequest.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/DualstackEndpointBuilder.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/GetRequestPaymentConfigurationRequest.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/InputSerialization.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/ListBucketsRequest.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/ObjectExpirationHeaderHandler.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/AnalyticsPredicateVisitorImpl.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/AclXmlFactory.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/S3QueryStringSigner.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/Encryption.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/transfer/internal/CopyPartCallable.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/S3Signer.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/LifecyclePredicateVisitorImpl.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/PartETag.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-

jar/com/amazonaws/services/s3/internal/S3ErrorResponseHandler.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/MultipartUploadListing.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/S3V4AuthErrorRetryStrategy.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/InitiateMultipartUploadRequest.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/InitiateMultipartUploadResult.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/RestoreRequestType.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/AmazonS3.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/StorageClass.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/InputSubstream.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/Constants.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/transfer/internal/CopyImpl.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/DeleteObjectsRequest.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/SelectParameters.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/AbstractHandler.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/auth/policy/conditions/S3ConditionFactory.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/EncryptionMaterials.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/CSVOutput.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/ExpressionType.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/crypto/AdjustedRangeInputStream.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/HeadBucketRequest.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/BucketConfigurationXmlFactory.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/MultiObjectDeleteXmlFactory.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/EncryptionMaterialsAccessor.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/S3ResponseMetadata.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-

jar/com/amazonaws/services/s3/transfer/Transfer.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/model/transform/ReplicationPredicateVisitorImpl.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/IsSigV4RetryablePredicate.java  
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\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/GetObjectTaggingResponseHeaderHandler.java  
\* /opt/cola/permits/1136114796\_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-  
jar/com/amazonaws/services/s3/internal/SetObjectTaggingResponseHeaderHandler.java  
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\*/

Found in path(s):

```
* /opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/waiters/AmazonS3Waiters.java
```

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```

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*
```

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```

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```

```
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```

```
*/
```

```
/**
```

```
* Synchronous client for accessing Amazon S3.
```

```
*
```

```
* <h1>Appendix: Amazon S3 client-side encryption meta information</h1>
```

```
*
```

```
* <h2>Introduction</h2>
```

```
* <p>
```

```
* This appendix summarizes the current crypto related meta information
```

```
* associated with an S3 object encrypted using SDK client-side encryption. In
```

```
* SDK's terminology, these meta information are classified as "user metadata".
```

```
* In general, the meta information is just a map of key/value pairs. Physically
```

```
* they are persisted either as metadata of the encrypted S3 object, or as a
```

```
* separate S3 object called an "instruction file" (which is just a JSON file in
```

```
* plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding,
```

```
* such as "AES/CBC/PKCS5Padding", please refer to Oracle's a
```

```
* href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html"
```

```
* >Java™ Cryptography Architecture Standard Algorithm Name Documentation
```

```
* for more details.
```

```
*
```

```
* <h2>S3 metadata vs instruction file</h2>
```

```
* <p>
```

```
* Note when a key/value pair is stored as "user metadata" as part of the S3
```

```
* metadata, the SDK always adds an additional prefix of x-amz-meta- to
```

```
* the key name. In contrast, the SDK doesn't add any prefix when the key names
```

```
* are stored in an instruction file. (The reason has to do with how the http
```

```
* headers are handled.)
```

```
*
```

```
* For example, x-amz-key would get stored as x-amz-meta-x-amz-key
```

```
* in S3 metadata. In contrast, x-amz-key would simply be stored as is
```

```
* (ie without the prefix) in an instruction file.
```



\*  
 \* All the keys described below are considered "user metadata" by the SDK.  
 \*

\* <h2>S3 v1 crypto meta information (supported by all SDK's)</h2>  
 \* <p>  
 \* For non-KMS client side encryption, this v1 crypto meta information is used  
 \* to support the "Encryption Only" crypto mode (which involves the use of  
 \* <code>AES/CBC/PKCS5Padding</code> for content encryption, and  
 \* <code>AES/ECB</code> for encrypting the one-time randomly generated data  
 \* key). For KMS client-side encryption, the v2 crypto meta information is used.  
 \* <p>

| key                                     | description                                                                                                                                                                                               |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>x-amz-key</b>                        | Content encrypting key (cek) in encrypted form, base64 encoded. The cek is randomly generated per S3 object, and is always an AES 256-bit key. The corresponding cipher is always "AES/CBC/PKCS5Padding". |
| <b>x-amz-iv</b>                         | Randomly generated IV (per S3 object), base64 encoded                                                                                                                                                     |
| <b>x-amz-matdesc</b>                    | Customer provided material description in JSON (UTF8) format. Used to identify the client-side master key (ie used to encrypt/wrap the generated content encrypting key).                                 |
| <b>x-amz-unencrypted-content-length</b> | Unencrypted content length (optional but should be specified whenever possible).                                                                                                                          |

\* </table>  
 \*

\* <h2>S3 v2 crypto meta information (currently supported by the Java SDK)</h2>  
 \* <p>  
 \* This v2 crypto meta information is used to support both authenticated  
 \* encryption (which involves the use of <code>AES/GCM/NoPadding</code> for  
 \* content encryption, and key wrapping for the one-time randomly generated data  
 \* key), and KMS client-side encryption (which can either be encryption-only or  
 \* authenticated encryption.)  
 \* <p>  
 \* <table border=1>

```

* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <tr>
* <td width="200">x-amz-key-v2</td>
* <td>CEK in key wrapped form. This is necessary so that the S3 encryption
* client that doesn't recognize the v2 format will not mistakenly decrypt S3
* object encrypted in v2 format.</td>
* </tr>
* <tr>
* <td>x-amz-iv</td>
* <td>Randomly generated IV (per S3 object), base64 encoded. (Same as v1.)</td>
* </tr>
* <tr>
* <td>x-amz-matdesc</td>
* <td>Customer provided material description in JSON format. (Same as v1). Used
* to identify the client-side master key.
*
* For KMS client side encryption, the KMS Customer Master Key ID is stored
* as part of the material description, x-amz-matdesc, under the key-name
* <code>"kms_cmk_id"</code>.
*
* </td>
* </tr>
* <tr>
* <td>x-amz-unencrypted-content-length</td>
* <td>Unencrypted content length. (optional but should be specified whenever
* possible. Same as v1.)</td>
* </tr>
* <tr>
* <td>x-amz-wrap-alg</td>
* <td>Key wrapping algorithm used.
*
* Supported values:
* <code>"AESWrap", "RSA/ECB/OAEPWithSHA-256AndMGF1Padding", "kms"</code>
* No standard key wrapping is used if this meta information is absent
* Always set to "kms" if KMS is used for client-side encryption
*
* </td>
* </tr>
* <tr>
* <td>x-amz-cek-alg</td>
* <td>Content encryption algorithm used.
*
* Supported values:
* <code>"AES/GCM/NoPadding", "AES/CBC/PKCS5Padding"</code>
* Default to <code>"AES/CBC/PKCS5Padding"</code> if this key is absent.

```

```

*
* </td>
* </tr>
* <tr>
* <td>x-amz-tag-len</td>
* <td>Tag length (in bits) when AEAD is in use.
*
* Only applicable if AEAD is in use. This meta information is absent
* otherwise, or if KMS is in use.
* Supported value: <code>"128"</code>
*
* </td>
* </tr>
* </table>
* <p>
* <h3>KMS Integration for client-side encryption</h3>
*
* All client-side KMS protected S3 objects are stored in v2 crypto meta information
* format. However, the key wrapping algorithm, x-amz-wrap-alg is always
* set to "kms".
* The KMS Customer Master Key ID is currently stored as part of the
* material description, x-amz-matdesc, under the key-name
* "kms_cmk_id".
*
* <p>
* <h4>Sample S3 crypto meta information for KMS client-side encryption</h4>
* <p>
* <h5>CryptoMode: Encryption Only</h5>
*
* <pre>
* x-amz-meta-x-amz-key-v2:
*
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCPifIAAAB+MHwGCSqGSib3DQEHbqBvMG0CAQAWaAYJKoZlIhvcNAQcBMB4GCWCGSAFI
AwQBLjARBAyD0rzN3KHViWixDVcCARCAOwhZ6xA8rob3Z0mNx3uKFieHKVyIC/PKlchALvG1oVLnf86m
cZJNpTXtwMkKkDocVj3Z1zGjZTufFsOH
* x-amz-iv: xqOHh+M6y0UogwG5SHJM3Q==
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/CBC/PKCS5Padding
* x-amz-wrap-alg: kms
* x-amz-matdesc: { "kms_cmk_id": "d3fd2273-4ca0-4da5-b1c2-c89742ec6a26" }
* </pre>
*
* <h5>CryptoMode: Authenticated Encryption</h5>
*
* <pre>
* x-amz-key-v2:
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUj

```

```
BLJRua8N6RCPifIAAAB+MHwGCSqGSib3DQEHBqBvMG0CAQAWaAYJKoZlIhvcNAQcBMB4GCWCGSAFI
AwQBLjARBAytFVYw4I6QmwcPK1ECARCAO1VzoM6KxA9DHyNMm/BEbbjle2vLA7IY7f9OkUoSqrxdxgKxp
NID9QaL/7928m1Djtd0bJpHefjm89C
```

```
* x-amz-iv: VZBksyij6DhrUMye
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/GCM/NoPadding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"kms_cmek_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* x-amz-tag-len: 128
* </pre>
```

```
*
```

```
* <h2>S3 metadata of an instruction file</h2>
```

```
* <p>
```

```
* The following key is always included as part of the S3 metadata of the
```

```
* instruction file (which is just an S3 object). Since the SDK treats this key
```

```
* as "user metadata", the key name is always prefixed with x-amz-meta-
```

```
* when physically stored.
```

```
* <p>
```

```
* <table border=1>
```

```
* <tr aligned="left">
```

```
* <th>key</th>
```

```
* <th>description</th>
```

```
* </tr>
```

```
* <tr>
```

```
* <td width="200">x-amz-crypto-instr-file</td>
```

```
* <td>the presence of this key is used to indicate this S3 object is an
```

```
* instruction file (of an associated client-side encrypted S3 object).</td>
```

```
* </tr>
```

```
* </table>
```

```
*/
```

Found in path(s):

```
*/opt/cola/permits/1136114796_1613679646.47/0/aws-java-sdk-s3-1-11-415-sources-1-
jar/com/amazonaws/services/s3/package-info.java
```

## 1.154 bean-validation-api 2.0.1.Final

### 1.154.1 Available under license :

Bean Validation API

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## 1.155 msgpack-core 0.8.20

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```

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```
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/core/MessagePack.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/impl/AbstractImmutableValue.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/core/buffer/ChannelBufferOutput.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/ImmutableValue.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/impl/ImmutableBinaryValueImpl.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/ImmutableExtensionValue.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/core/MessageInsufficientBufferException.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/IntegerValue.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/impl/ImmutableDoubleValueImpl.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/core/MessagePacker.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/impl/ImmutableMapValueImpl.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/RawValue.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/impl/ImmutableBooleanValueImpl.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/core/buffer/DirectBufferAccess.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/ExtensionValue.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/ImmutableBooleanValue.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/impl/ImmutableLongValueImpl.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/ImmutableFloatValue.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/ValueType.java
```

\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/impl/ImmutableExtensionValueImpl.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/impl/ImmutableBigIntegerValueImpl.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/StringValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/Value.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/impl/ImmutableNilValueImpl.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/ImmutableArrayValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessageFormat.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessageSizeException.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessageTypeCastException.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/annotations/Nullable.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/ByteBufferInput.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/ChannelBufferInput.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/annotations/VisibleForTesting.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/ArrayBufferInput.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/OutputStreamBufferOutput.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/ImmutableStringValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/Variable.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/ImmutableNumberValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/NumberValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/ImmutableMapValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/ValueFactory.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessagePackException.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessageTypeException.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessageNeverUsedFormatException.java

\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/NilValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessageUnpacker.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/impl/ImmutableArrayValueImpl.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/MessageBufferBE.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/MessageBufferInput.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/impl/AbstractImmutableRawValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/ArrayBufferOutput.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessageBufferPacker.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/MessageBuffer.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/MessageBufferU.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/BinaryValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/impl/ImmutableStringValueImpl.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/ImmutableNilValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/MessageBufferOutput.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/ImmutableIntegerValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessageStringCodingException.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/ExtensionTypeHeader.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/BooleanValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/ImmutableRawValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/ArrayValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessageIntegerOverflowException.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/buffer/InputStreamBufferInput.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/value/FloatValue.java  
\* /opt/cola/permits/1135840621\_1613612884.82/0/msgpack-core-0-8-20-sources-1-jar/org/msgpack/core/MessageFormatException.java

```
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/MapValue.java
* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/value/ImmutableBinaryValue.java
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* /opt/cola/permits/1135840621_1613612884.82/0/msgpack-core-0-8-20-sources-1-
jar/org/msgpack/core/Preconditions.java
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## 1.156 influxdb-java 2.20

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jar/org/influxdb/impl/InfluxDBResultMapper.java  
\* /opt/cola/permits/1140082668\_1614722064.23/0/influxdb-java-2-20-sources-2-  
jar/org/influxdb/InfluxDBMapperException.java  
\* /opt/cola/permits/1140082668\_1614722064.23/0/influxdb-java-2-20-sources-2-  
jar/org/influxdb/annotation/Column.java  
\* /opt/cola/permits/1140082668\_1614722064.23/0/influxdb-java-2-20-sources-2-  
jar/org/influxdb/annotation/Measurement.java

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INF/maven/org.influxdb/influxdb-java/pom.xml

## 1.157 netty-transport-udt 4.1.69.Final

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\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/UdtChannel.java  
\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java  
\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java  
\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/nio/NioUdtProvider.java  
\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java  
\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java  
\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java  
\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java  
\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java

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\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/UdtServerChannelConfig.java

\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/UdtChannelOption.java

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\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/package-info.java

\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/DefaultUdtChannelConfig.java

\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/nio/package-info.java  
\* /opt/cola/permits/1235364887\_1638382305.22/0/netty-transport-udt-4-1-69-final-sources-jar/io/netty/channel/udt/UdtMessage.java  
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## 1.158 scim2-sdk-common 2.1.1

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ASM: a very small and fast Java bytecode manipulation framework

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# The main CI of Hibernate ORM is <https://ci.hibernate.org/job/hibernate-orm-6.0-h2-main/>.

# However, Hibernate ORM builds run on GitHub actions regularly

# to check that it still works and can be used in GitHub forks.

# See <https://docs.github.com/en/free-pro-team@latest/actions>

# for more information about GitHub actions.

name: Hibernate ORM build

on:

push:

branches:

- '5.4'

pull\_request:

branches:

- '5.4'

```

jobs:
 build:
 name: Java 8
 runs-on: ubuntu-latest
 # We want to know the test results of all matrix entries
 continue-on-error: true
 strategy:
 fail-fast: false
 matrix:
 # When GitHub Actions supports it: https://github.com/actions/toolkit/issues/399
 # We will use the experimental flag as indicator whether a failure should cause a workflow failure
 include:
 - rdbms: h2
 experimental: false
 # - rdbms: derby
 # experimental: true
 # - rdbms: mariadb
 # experimental: true
 - rdbms: postgresql
 experimental: true
 # - rdbms: oracle
 # experimental: true
 # - rdbms: db2
 # experimental: true
 # - rdbms: mssql
 # experimental: true
 steps:
 - uses: actions/checkout@v2
 - name: Reclaim Disk Space
 run: .github/ci-prerequisites.sh
 - name: Set up Java 8
 uses: actions/setup-java@v1
 with:
 java-version: 1.8
 - name: Get year/month for cache key
 id: get-date
 run: |
 echo "::set-output name=yearmonth::$(/bin/date -u "+%Y-%m")"
 shell: bash
 - name: Cache Maven local repository
 uses: actions/cache@v2
 id: cache-maven
 with:
 path: |
 ~/.m2/repository
 ~/.gradle/caches/
 ~/.gradle/wrapper/
 # refresh cache every month to avoid unlimited growth

```

```

 key: maven-localrepo-${{ steps.get-date.outputs.yearmonth }}
- name: Run build script
 env:
 RDBMS: ${{ matrix.rdbms }}
 run: ./ci/build-github.sh
 shell: bash
- name: Upload test reports (if Gradle failed)
 uses: actions/upload-artifact@v2
 if: failure()
 with:
 name: test-reports-java8-${{ matrix.rdbms }}
 path: |
 ./**/target/reports/tests/
 ./**/target/reports/checkstyle/
- name: Omit produced artifacts from build cache
 run: ./ci/before-cache.sh
build11:
 name: Java 11
 runs-on: ubuntu-latest
 # We want to know the test results of all matrix entries
 continue-on-error: true
 steps:
 - uses: actions/checkout@v2
 - name: Set up Java 11
 uses: actions/setup-java@v1
 with:
 java-version: 11
 - name: Get year/month for cache key
 id: get-date
 run: |
 echo "::set-output name=yearmonth::$(/bin/date -u "+%Y-%m")"
 shell: bash
 - name: Cache Maven local repository
 uses: actions/cache@v2
 id: cache-maven
 with:
 path: |
 ~/.m2/repository
 ~/.gradle/caches/
 ~/.gradle/wrapper/
 # refresh cache every month to avoid unlimited growth
 key: maven-localrepo-${{ steps.get-date.outputs.yearmonth }}
 - name: Run build script
 run: ./ci/build-github.sh
 shell: bash
 - name: Upload test reports (if Gradle failed)
 uses: actions/upload-artifact@v2
 if: failure()

```

with:  
name: test-reports-java11  
path: |  
./\*\*/target/reports/tests/  
./\*\*/target/reports/checkstyle/  
- name: Omit produced artifacts from build cache  
run: ./ci/before-cache.sh

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Version 2.1, February 1999

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#### Eclipse

The following artifacts are EPL.

- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javac.mail.glassfish

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#### Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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#### OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by

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# 1.165 commons-beanutils 1.8.3

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\* /opt/cola/permits/1147203698\_1616863303.7/0/java-driver-query-builder-4-10-0-sources-jar/com/datastax/oss/driver/api/querybuilder/delete/Delete.java

\* /opt/cola/permits/1147203698\_1616863303.7/0/java-driver-query-builder-4-10-0-sources-jar/com/datastax/dse/driver/api/querybuilder/schema/AlterDseTableAddColumnEnd.java

\* /opt/cola/permits/1147203698\_1616863303.7/0/java-driver-query-builder-4-10-0-sources-jar/com/datastax/oss/driver/internal/querybuilder/select/BinaryArithmeticSelector.java

\* /opt/cola/permits/1147203698\_1616863303.7/0/java-driver-query-builder-4-10-0-sources-jar/com/datastax/oss/driver/internal/querybuilder/select/AllSelector.java

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\* /opt/cola/permits/1147203698\_1616863303.7/0/java-driver-query-builder-4-10-0-sources-jar/com/datastax/oss/driver/api/querybuilder/relation/MultiColumnRelationBuilder.java

\* /opt/cola/permits/1147203698\_1616863303.7/0/java-driver-query-builder-4-10-0-sources-jar/com/datastax/oss/driver/api/querybuilder/schema/CreateMaterializedViewSelectionWithColumns.java

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\* /opt/cola/permits/1147203698\_1616863303.7/0/java-driver-query-builder-4-10-0-sources-jar/com/datastax/dse/driver/api/querybuilder/schema/CreateDseAggregateEnd.java

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\* /opt/cola/permits/1147203698\_1616863303.7/0/java-driver-query-builder-4-10-0-sources-jar/com/datastax/oss/driver/internal/querybuilder/schema/compaction/DefaultSizeTieredCompactionStrategy.java  
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## 1.172 netty-transport 4.1.69.Final

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 \*/  
 /\*\*  
 \* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in  
 \* its { @link ChannelPipeline }.  
 \*  
 \* <h3>Sub-types</h3>  
 \* <p>  
 \* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its  
 subtypes:  
 \* <ul>  
 \* <li>{ @link ChannelInboundHandler } to handle inbound I/O events, and</li>  
 \* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>  
 \* </ul>  
 \* </p>  
 \* <p>  
 \* Alternatively, the following adapter classes are provided for your convenience:  
 \* <ul>  
 \* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>  
 \* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>  
 \* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>  
 \* </ul>  
 \* </p>  
 \* <p>  
 \* For more information, please refer to the documentation of each subtype.  
 \* </p>  
 \*  
 \* <h3>The context object</h3>  
 \* <p>  
 \* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }  
 \* object. A { @link ChannelHandler } is supposed to interact with the  
 \* { @link ChannelPipeline } it belongs to via a context object. Using the  
 \* context object, the { @link ChannelHandler } can pass events upstream or  
 \* downstream, modify the pipeline dynamically, or store the information  
 \* (using { @link AttributeKey }s) which is specific to the handler.  
 \*  
 \* <h3>State management</h3>  
 \*  
 \* A { @link ChannelHandler } often needs to store some stateful information.

\* The simplest and recommended approach is to use member variables:

```
* <pre>
* public interface Message {
* // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}<>Message> {
*
* private boolean loggedIn;
*
* { @code @Override }
* public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) message);
* loggedIn = true;
* } else (message instanceof GetDataMessage) {
* if (loggedIn) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
* } else {
* fail();
* }
* }
* }
* ...
* }
* </pre>
```

\* Because the handler instance has a state variable which is dedicated to  
\* one connection, you have to create a new handler instance for each new  
\* channel to avoid a race condition where a unauthenticated client can get  
\* the confidential information:

```
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends { @link ChannelInitializer}<>{ @link Channel}> {
* { @code @Override }
* public void initChannel({ @link Channel } channel) {
* channel.pipeline().addLast("handler", new DataServerHandler());
* }
* }
*
* </pre>
```

\* <h4>Using { @link AttributeKey}s</h4>

\* Although it's recommended to use member variables to store the state of a  
\* handler, for some reason you might not want to create many handler instances.  
\* In such a case, you can use { @link AttributeKey}s which is provided by  
\* { @link ChannelHandlerContext}:

```

* <pre>
* public interface Message {
* // your methods here
* }
*
* { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}<&Message> {
* private final { @link AttributeKey}<&{ @link Boolean}>; auth =
* { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
* { @code @Override }
* public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
* { @link Attribute}<&{ @link Boolean}>; attr = ctx.attr(auth);
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) o);
* attr.set(true);
* } else (message instanceof GetDataMessage) {
* if (Boolean.TRUE.equals(attr.get())) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
* } else {
* fail();
* }
* }
* }
* }
* ...
* }
* </pre>

```

\* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}<&{ @link Channel}> {
*
* private static final DataServerHandler SHARED = new DataServerHandler();
*
* { @code @Override }
* public void initChannel({ @link Channel} channel) {
* channel.pipeline().addLast("handler", SHARED);
* }
* }
* </pre>

```

\* <h4>The { @code @Sharable} annotation</h4>

\* <p>In the example above which used an { @link AttributeKey}, you might have noticed the { @code @Sharable} annotation.</p>

\* If a { @link ChannelHandler} is annotated with the { @code @Sharable}

- \* annotation, it means you can create an instance of the handler just once and
- \* add it to one or more { @link ChannelPipeline}s multiple times without
- \* a race condition.
- \* <p>
- \* If this annotation is not specified, you have to create a new handler
- \* instance every time you add it to a pipeline because it has unshared state
- \* such as member variables.
- \* <p>
- \* This annotation is provided for documentation purpose, just like
- \* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
- \*
- \* <h3>Additional resources worth reading</h3>
- \* <p>
- \* Please refer to the { @link ChannelHandler}, and
- \* { @link ChannelPipeline} to find out more about inbound and outbound operations,
- \* what fundamental differences they have, how they flow in a pipeline, and how to handle
- \* the operation in your application.
- \*/

Found in path(s):

- \* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelHandler.java

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- \* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java

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\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/PendingWriteQueue.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/AbstractEventLoop.java

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* /opt/cola/permits/1265673550_1643922077.24/0/netty-transport-4-1-69-final-sources-
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```

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* /opt/cola/permits/1265673550_1643922077.24/0/netty-transport-4-1-69-final-sources-
jar/io/netty/channel/SelectStrategy.java
```

```
* /opt/cola/permits/1265673550_1643922077.24/0/netty-transport-4-1-69-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
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* /opt/cola/permits/1265673550_1643922077.24/0/netty-transport-4-1-69-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
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\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/DuplexChannel.java  
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\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java

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\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/group/ChannelGroupException.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-

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\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-  
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\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/internal/ChannelUtils.java  
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\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/nio/package-info.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/EventLoop.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/local/LocalServerChannel.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/EventLoopException.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/CompleteChannelFuture.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelHandlerContext.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/embedded/package-info.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelPipelineException.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/Channel.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelPromise.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/package-info.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelFuture.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/local/LocalAddress.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/ChannelConfig.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/bootstrap/Bootstrap.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/nio/NioTask.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java

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\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java

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\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/ChannelPool.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java

\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java



\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java  
\* /opt/cola/permits/1265673550\_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/io/netty/channel/pool/package-info.java  
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* /opt/cola/permits/1265673550_1643922077.24/0/netty-transport-4-1-69-final-sources-jar/META-INF/native-
image/io.netty.transport.native-image.properties
```

## 1.173 netty-resolver-dns-native-macos

### 4.1.69.Final

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* /opt/cola/permits/1221869470_1635493927.27/0/netty-resolver-dns-native-macos-4-1-69-final-sources-
jar/META-INF/maven/io.netty/netty-resolver-dns-native-macos/pom.xml
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- \* /opt/cola/permits/1221869470\_1635493927.27/0/netty-resolver-dns-native-macos-4-1-69-final-sources-jar/io/netty/resolver/dns/macos/DnsResolver.java
- \* /opt/cola/permits/1221869470\_1635493927.27/0/netty-resolver-dns-native-macos-4-1-69-final-sources-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java

# 1.174 gson 2.8.8

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- \* /opt/cola/permits/1221995412\_1635506962.82/0/gson-2-8-8-sources-1-jar/META-INF/maven/org.immutables/gson/pom.xml

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- \* /opt/cola/permits/1221995412\_1635506962.82/0/gson-2-8-8-sources-1-jar/org/immutable/gson/adapters/ExpectedSubtypesAdapter.java
- \* /opt/cola/permits/1221995412\_1635506962.82/0/gson-2-8-8-sources-1-jar/org/immutable/gson/stream/GsonMessageBodyProvider.java
- \* /opt/cola/permits/1221995412\_1635506962.82/0/gson-2-8-8-sources-1-jar/org/immutable/gson/stream/JsonGeneratorWriter.java
- \* /opt/cola/permits/1221995412\_1635506962.82/0/gson-2-8-8-sources-1-jar/org/immutable/gson/Gson.java

## 1.175 rxjava 1.3.8

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeReduce.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/SuppressAnimalSniffer.java

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ExceptionsUtils.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeConcatMap.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeCollect.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOnSubscribeUsing.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFromCallable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/DeferredScalarSubscriberSafe.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeReduceSeed.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribePublishMulticast.java  
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It is excluded from the public Javadocs (<http://netflix.github.io/RxJava/javadoc/>) and should not be relied upon by any code.

In short, changes to public signatures of these classes will not be accounted for in the versioning of RxJava.

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/README.md

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core/src/main/java/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
*/
```

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```
*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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```

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```
*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFlatMapCompletable.java  
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\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/MpmcArrayQueue.java  
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\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpSCUnboundedAtomicArrayQueue.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/BooleanSubscription.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/MissingBackpressureException.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSkipWhile.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorAsObservable.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/SubscriptionList.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/TimeInterval.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDematerialize.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action3.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/Subscribers.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/ImmediateScheduler.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/Observers.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaErrorHandler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorAny.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/Stamped.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/BlockingObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func2.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeMerge.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action7.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorCast.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/CachedThreadScheduler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Subscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDelay.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeJoin.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeUsing.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/BehaviorSubject.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action6.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/GroupedObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/internal/schedulers/EventLoopsScheduler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeAutoConnect.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/BlockingOperatorToFuture.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/plugins/RxJavaObservableExecutionHookDefault.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/ReplaySubject.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorDoOnUnsubscribe.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action2.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/CompletableOnSubscribeMergeIterable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorTimeInterval.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func5.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeRedo.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeFilter.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/BlockingOperatorToIterator.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SafeSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/schedulers/GenericScheduledExecutorService.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorTakeLastTimed.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/CachedObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/LinkedList.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorTakeUntilPredicate.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func1.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/Subscriptions.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/Exceptions.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/subscriptions/SerialSubscription.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/subscriptions/CompositeSubscription.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorSkipLastTimed.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorMerge.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/exceptions/CompositeException.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/OnErrorThrowable.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/NewThreadScheduler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/UnicastSubject.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/OnErrorFailedException.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/SleepingAction.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action0.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/TestSubject.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/AsyncSubject.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BlockingOperatorNext.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/ActionN.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorOnErrorResumeNextViaFunction.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeToObservableFuture.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/SerializedSubject.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/FuncN.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorScan.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/TrampolineScheduler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTake.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/QueuedValueProducer.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-



```
jar/rx/internal/producers/ProducerObserverArbiter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/producers/QueuedProducer.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/BackpressureUtils.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/producers/ProducerArbiter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/producers/SingleProducer.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/producers/SingleDelayedProducer.java
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* Original location: https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/LinkedQueueNode.java
*/
```

Found in path(s):

```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/util/atomic/LinkedQueueNode.java
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/internal/operators/OnSubscribeCombineLatest.java

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\* Modified from <http://www.javacodegeeks.com/2013/08/simple-and-lightweight-pool-implementation.html>

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/internal/operators/SingleDoAfterTerminate.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/singles/BlockingSingle.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/AsyncOnSubscribe.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/BlockingUtils.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleSubscriber.java

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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert  
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:

<https://github.com/JCTools/JCTools>

JCTools has now published artifacts (<https://github.com/JCTools/JCTools/issues/17>) so RxJava could add JCTools as a "shadow" dependency (<https://github.com/ReactiveX/RxJava/issues/1735>).

RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is <https://github.com/JCTools/JCTools/blob/master/LICENSE>

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- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/CompletableSubscriber.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleEmitter.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableFromEmitter.java

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- \*/

Found in path(s):

- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/BaseLinkedQueue.java

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Emitter.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilObservable.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/package-info.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SafeCompletableSubscriber.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionObserver.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeThrow.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/package-info.java

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/annotations/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/InternalObservableUtils.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/BackpressureOverflow.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaCompletableExecutionHook.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDoOnUnsubscribe.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/subscriptions/Unsubscribed.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeLift.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleLiftObservableOperator.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSingleExecutionHook.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOnErrorReturn.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssembly.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromObservable.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromEmitter.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeCreate.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionNotificationObserver.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/subscriptions/CancellableSubscription.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleObserveOn.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/GenericScheduledExecutorServiceFactory.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/AssertableSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSingleExecutionHookDefault.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/observers/AssertableSubscriberObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromCallable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/AssemblyStackTraceException.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilSingle.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/EmptyObservableHolder.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleToObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/SchedulerWhen.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/NeverObservableHolder.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/AsyncCompletableSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/SchedulePeriodicHelper.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFlattenIterable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaHooks.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDelay.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDoOnSubscribe.java  
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Observable.java
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 * the 3 methods that return Scheduler (io(), computation(), newThread()).
 * 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The system-
 * supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
 * Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
 * modify Scheduler functionality without redefining Schedulers wholesale.
 *
 * Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
 * <p>
 * See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
 * https://github.com/ReactiveX/RxJava/wiki/Plugins.
 */
```

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jar/rx/internal/operators/OperatorBufferWithTime.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMulticast.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMapPair.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorEagerConcatMap.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorDistinct.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/ScheduledAction.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorSampleWithObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeTimerPeriodically.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/ExecutorScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorBufferWithSize.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorDebounceWithTime.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/RxThreadFactory.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeDelaySubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
```

jar/rx/internal/operators/OperatorWindowWithObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeSkipTimed.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorSkipUntil.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeTimerOnce.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorWindowWithObservableFactory.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorDistinctUntilChanged.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/SingleOnSubscribeDelaySubscriptionOther.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorPublish.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/PlatformDependent.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorRetryWithPredicate.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorBufferWithSingleObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorDoAfterTerminate.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorTakeTimed.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorWindowWithSize.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorSwitch.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/schedulers/NewThreadWorker.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorOnBackpressureLatest.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorSampleWithTime.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorWindowWithTime.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorWithLatestFrom.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeRefCount.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpScLinkedListArrayQueue.java

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\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/ConcurrentSequencedCircularArrayQueue.java

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\*/

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpScExactAtomicArrayQueue.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpScAtomicArrayQueue.java

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\* Inspired from <https://code.google.com/p/guava->

libraries/source/browse/guava/src/com/google/common/annotations/Beta.java

\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/annotations/Experimental.java

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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/SpScLinkedList.java>

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Found in path(s):

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core/src/main/java/org/jctools/queues/QueueProgressIndicators.java
 */
```

Found in path(s):

```
*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/util/unsafe/QueueProgressIndicators.java
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core/src/main/java/org/jctools/queues/MessagePassingQueue.java
 */
```

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jar/rx/internal/util/unsafe/MessagePassingQueue.java
```

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## 1.176.1 Available under license :

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```
* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
jar/org/springframework/jdbc/core/PreparedStatementSetter.java
* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
jar/org/springframework/jdbc/support/lob/LobHandler.java
* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
jar/org/springframework/jdbc/core/RowCallbackHandler.java
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\* The classes in this package make JDBC easier to use and

\* reduce the likelihood of common errors. In particular, they:

\* <ul>

\* <li>Simplify error handling, avoiding the need for try/catch/finally blocks in application code.

\* <li>Present exceptions to application code in a generic hierarchy of

\* unchecked exceptions, enabling applications to catch data access

\* exceptions without being dependent on JDBC, and to ignore fatal

\* exceptions there is no value in catching.

\* <li>Allow the implementation of error handling to be modified

- \* to target different RDBMSes without introducing proprietary
- \* dependencies into application code.

\* </ul>

\* <p>This package and related packages are discussed in Chapter 9 of

\* <a href="https://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and Development</a>

\* by Rod Johnson (Wrox, 2002).

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- \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
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- \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/core/SqlParameterValue.java
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- \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
- \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-

jar/org/springframework/jdbc/support/JdbcAccessor.java  
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jar/org/springframework/jdbc/support/KeyHolder.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java  
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jar/org/springframework/jdbc/support/JdbcTransactionManager.java  
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jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java  
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jar/org/springframework/jdbc/core/StatementCreatorUtils.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/JdbcOperations.java  
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jar/org/springframework/jdbc/core/SqlReturnType.java  
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jar/org/springframework/jdbc/support/GeneratedKeyHolder.java  
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jar/org/springframework/jdbc/object/RdbmsOperation.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/SingleColumnRowMapper.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/SqlProvider.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/JdbcTemplate.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java  
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- \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/SQLWarningException.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/support/MetaDataAccessException.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/object/GenericStoredProcedure.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/support/SqlValue.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
  - \* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
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*/
/**
 * Strategy interface for translating between {@link SQLException SQLExceptions}
 * and Spring's data access strategy-agnostic {@link DataAccessException}
 * hierarchy.
 *
 * <p>Implementations can be generic (for example, using
 * {@link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see org.springframework.dao.DataAccessException
 */
```

Found in path(s):

```
* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
jar/org/springframework/jdbc/support/SQLExceptionTranslator.java
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* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
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\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/ParameterDisposer.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/support/lob/PassThroughClob.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/support/SqlLobValue.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/DelegatingDataSource.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/support/lob/PassThroughBlob.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/ConnectionProxy.java  
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jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java  
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jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java  
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```
*/opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
jar/org/springframework/jdbc/core/JdbcOperationsExtensions.kt
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```

```
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
```

```
/**
* Create a Map of input parameters, keyed by name.
* @param con a JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @return a Map of input parameters, keyed by name (never {@code null})
* @throws SQLException if an SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
```

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\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-jar/org/springframework/jdbc/core/ParameterMapper.java

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\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-



jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/init/ScriptParseException.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/init/ScriptException.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/DataClassRowMapper.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/ColumnMapRowMapper.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/init/ScriptUtils.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java  
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*/
/**
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p>NOTE</p>: Needs to be invoked after the involved PreparedStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/
```

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```
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jar/org/springframework/jdbc/support/lob/LobCreator.java
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jar/org/springframework/jdbc/BadSqlGrammarException.java
* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
jar/org/springframework/jdbc/core/CallableStatementCallback.java
* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
jar/org/springframework/jdbc/object/SqlOperation.java
* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
jar/org/springframework/jdbc/UncategorizedSQLException.java
* /opt/cola/permits/1221016716_1635514078.35/0/spring-jdbc-5-3-9-sources-
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jar/org/springframework/jdbc/core/CallableStatementCreator.java  
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\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
jar/org/springframework/jdbc/datasource/ConnectionHolder.java  
\* /opt/cola/permits/1221016716\_1635514078.35/0/spring-jdbc-5-3-9-sources-  
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jar/org/springframework/retry/backoff/FixedBackOffPolicy.java  
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jar/org/springframework/retry/context/RetryContextSupport.java  
\* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-  
jar/org/springframework/retry/backoff/UniformRandomBackOffPolicy.java

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- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/backoff/BackOffInterruptedException.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/listener/RetryListenerSupport.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/classify/PatternMatcher.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/policy/CompositeRetryPolicy.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/classify/ClassifierAdapter.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/RetryState.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/classify/Classifier.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/interceptor/NewMethodArgumentsIdentifier.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/ExhaustedRetryException.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/interceptor/MethodArgumentsKeyGenerator.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/policy/RetryCacheCapacityExceededException.java
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- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/RecoveryCallback.java
- \* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/backoff/ObjectWaitSleeper.java
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\* /opt/cola/permits/1257203688\_1643390885.66/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/RetryListener.java

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jar/org/springframework/retry/annotation/EnableRetry.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/annotation/Backoff.java
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* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/RetryStatisticsFactory.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/DefaultRetryStatisticsFactory.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/StatisticsListener.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/ExponentialAverageRetryStatistics.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/MutableRetryStatistics.java
* /opt/cola/permits/1257203688_1643390885.66/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/stats/StatisticsRepository.java
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The primary ANTLR guy:

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## 1.181 args4j 2.0.29

## 1.182 netty-reactive-streams 2.0.4

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## 1.183 jsr305 3.0.2

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```
/*
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 */
```

Found in path(s):

```
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-
jar/javax/annotation/concurrent/GuardedBy.java
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-
jar/javax/annotation/concurrent/ThreadSafe.java
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-
jar/javax/annotation/concurrent/Immutable.java
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-
jar/javax/annotation/concurrent/NotThreadSafe.java
```

## 1.184 kotlin 1.4.32

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```
{"version":3,"file":"kotlin.js","sources":["wrapper.js","arrayUtils.js","callableReferenceUtils.js","conversions.js","c
ore.js","long.js","markerFunctions.js","misc.js","polyfills.js","rtti.js","runtime/arrayUtils.kt","runtime/Enum.kt","pri
mitiveCompanionObjects.kt","generated/_Arrays.kt","generated/_Ranges.kt","kotlin/UByte.kt","kotlin/UInt.kt","kotl
in/UShort.kt","Ranges.kt","collections/Collections.kt","collections/Maps.kt","collections/Sets.kt","text/StringNumb
erConversions.kt","kotlin/UnsignedUtils.kt","collections/Iterables.kt","collections/Sequences.kt","util/Preconditions.
kt","generated/_ArraysJs.kt","comparisons/Comparisons.kt","util/Standard.kt","generated/_ComparisonsJs.kt","kotli
n/ULong.kt","generated/_Collections.kt","kotlin/collections.kt","collections/Iterators.kt","generated/_Comparisons.k
t","generated/_Maps.kt","generated/_Sequences.kt","generated/_Sets.kt","generated/_Strings.kt","text/Strings.kt","k
otlin/text/string.kt","kotlin/UByteArray.kt","kotlin/UIntArray.kt","kotlin/ULongArray.kt","kotlin/UShortArray.kt","
generated/_UArrays.kt","generated/_UCollections.kt","generated/_UComparisons.kt","generated/_URanges.kt","ge
nerated/_USequences.kt","kotlin/ExceptionsH.kt","kotlin/JsAnnotationsH.kt","Collections.kt","Iterators.kt","Progre
ssionIterators.kt","Progressions.kt","Range.kt","Unit.kt","annotation/Annotations.kt","internal/InternalAnnotations.k
```



t","internal/progressionUtil.kt","kotlin/builtins.kt","kotlin/jsTypeOf.kt","kotlin/kotlin.kt","kotlin/charCode\_js-v1.kt","kotlin/coroutines/CoroutineImpl.kt","util/Result.kt","coroutines/Continuation.kt","kotlin/coroutines/intrinsics/IntrinsicsJs.kt","kotlin/currentBeMisc.kt","kotlin/exceptions.kt","kotlin/jsOperators.kt","kotlin/math\_js-v1.kt","kotlin/numbers\_js-v1.kt","kotlin/reflection\_js-v1.kt","kotlin/text/numberConversions\_js-v1.kt","generated/\_CollectionsJs.kt","generated/\_StringsJs.kt","generated/\_UArraysJs.kt","jquery/ui.kt","kotlin/Comparator.kt","kotlin/annotations.kt","kotlin/annotationsJVM.kt","kotlin/collections/AbstractMutableCollection.kt","kotlin/collections/AbstractMutableList.kt","kotlin/collections/AbstractMutableMap.kt","kotlin/collections/AbstractMutableSet.kt","kotlin/collections/ArrayList.kt","kotlin/collections/ArraySorting.kt","kotlin/collections/ArraysJs.kt","kotlin/collections/EqualityComparator.kt","kotlin/collections/HashMap.kt","kotlin/collections/HashSet.kt","kotlin/collections/InternalHashCodeMap.kt","kotlin/collections/InternalMap.kt","kotlin/collections/InternalStringMap.kt","kotlin/collections/LinkedHashMap.kt","kotlin/collections/LinkedHashSet.kt","kotlin/concurrent.kt","kotlin/console.kt","kotlin/coroutines/SafeContinuationJs.kt","kotlin/coroutines/cancellation/CancellationException.kt","kotlin/coroutines/js/internal/EmptyContinuation.kt","kotlin/date.kt","kotlin/dom/Builders.kt","kotlin/dom/Classes.kt","kotlin/dom/Dom.kt","kotlin/dom/EventListener.kt","kotlin/dom/ItemArrayLike.kt","kotlin/dom/Mutations.kt","kotlin/dynamic.kt","kotlin/exceptionUtils.kt","kotlin/grouping.kt","collections/Grouping.kt","kotlin/js.math.kt","kotlin/json.kt","kotlin/math.kt","kotlin/numbers.kt","kotlin/promise.kt","kotlin/random/PlatformRandom.kt","kotlin/reflect/AssociatedObjects.kt","kotlin/reflect/JsClass.kt","kotlin/reflect/KClassImpl.kt","kotlin/reflect/KClassesImpl.kt","kotlin/reflect/KTypeHelpers.kt","kotlin/reflect/KTypeImpl.kt","kotlin/reflect/KTypeParameterImpl.kt","kotlin/reflect/primitives.kt","kotlin/reflect/reflection.kt","kotlin/regexp.kt","kotlin/sequence.kt","kotlin/text/CharacterCodingExceptionJs.kt","kotlin/text/StringBuilderJs.kt","kotlin/text/char.kt","kotlin/text/numberConversions.kt","kotlin/text/regexp.kt","kotlin/text/stringsCode.kt","kotlin/text/utf8Encoding.kt","kotlin/throwableExtensions.kt","kotlin/time/DurationUnit.kt","kotlin/time/MonoTimeSource.kt","kotlin/time/formatToDecimals.kt","kotlinx/dom/Builders.kt","kotlinx/dom/Classes.kt","text/regexp/RegexExtensions.kt","text/StringBuilder.kt","kotlinx/dom/Dom.kt","kotlinx/dom/Mutations.kt","org.w3c/deprecated.kt","org.w3c/org.khronos.webgl.kt","org.w3c/org.w3c.dom.clipboard.kt","org.w3c/org.w3c.dom.css.kt","org.w3c/org.w3c.dom.encryptedmedia.kt","org.w3c/org.w3c.dom.events.kt","org.w3c/org.w3c.dom.kt","org.w3c/org.w3c.fetch.kt","org.w3c/org.w3c.dom.mediacapture.kt","org.w3c/org.w3c.dom.mediasource.kt","org.w3c/org.w3c.dom.pointerevents.kt","org.w3c/org.w3c.dom.svg.kt","org.w3c/org.w3c.files.kt","org.w3c/org.w3c.notifications.kt","org.w3c/org.w3c.workers.kt","org.w3c/org.w3c.xhr.kt","CharCode.kt","annotations/Experimental.kt","annotations/ExperimentalStdlibApi.kt","annotations/Inference.kt","annotations/Multiplatform.kt","annotations/OptIn.kt","collections/AbstractCollection.kt","collections/AbstractIterator.kt","collections/AbstractList.kt","collections/AbstractMap.kt","collections/AbstractSet.kt","collections/ArrayDeque.kt","collections/Arrays.kt","collections/IndexedValue.kt","collections/MapAccessors.kt","collections/MapWithDefault.kt","collections/MutableCollections.kt","collections/ReversedViews.kt","collections/SequenceBuilder.kt","collections/SlidingWindow.kt","collections/UArraySorting.kt","contracts/ContractBuilder.kt","coroutines/ContinuationInterceptor.kt","coroutines/CoroutineContext.kt","coroutines/CoroutineContextImpl.kt","coroutines/intrinsics/Intrinsics.kt","experimental/bitwiseOperations.kt","experimental/inferenceMarker.kt","internal/Annotations.kt","properties/Delegates.kt","properties/Interfaces.kt","properties/ObservableProperty.kt","properties/PropertyReferenceDelegates.kt","random/Random.kt","random/URandom.kt","random/XorWowRandom.kt","ranges/Ranges.kt","reflect/KClasses.kt","reflect/KTypeProjection.kt","reflect/KVariance.kt","reflect/typeOf.kt","text/Appendable.kt","text/Char.kt","text/Indent.kt","text/Typography.kt","text/regexp/MatchResult.kt","time/Duration.kt","time/DurationUnit.kt","time/ExperimentalTime.kt","time/TimeSource.kt","time/TimeSources.kt","time/measureTime.kt","util/DeepRecursive.kt","util/HashCode.kt","util/KotlinVersion.kt","util/Lateinit.kt","util/Lazy.kt","util/Numbers.kt","util/Suspend.kt","util/Tuples.kt","kotlin/UIntRange.kt","kotlin/UIterators.kt","kotlin/ULongRange.kt","kotlin/UMath.kt","kotlin/UNumbers.kt","kotlin/UProgressionUtil.kt","kotlin/UStrings.kt","kotlin/annotations/Unsigned.kt","kotlin/MathH.kt"],"sourcesContent":["(function (root, factory) {\n if (typeof define === 'function' && define.amd) {\n define('kotlin', ['exports'], factory);\n } else if (typeof exports === 'object') {\n factory(module.exports);\n } else {\n root.kotlin = {};\n factory(root.kotlin);\n } })(this, function (Kotlin) {\n var \_ = Kotlin;\n \n insertContent();\n});\n","/\*\n \* Copyright 2010-2018  
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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.isArray = function (a)
{\n return (Array.isArray(a) || a instanceof Int8Array) && a.$type$ ===
\"BooleanArray\";\n};\n\nKotlin.isArray = function (a) {\n return a instanceof Int8Array && a.$type$!==
\"BooleanArray\";\n};\n\nKotlin.isShortArray = function (a) {\n return a instanceof
Int16Array;\n};\n\nKotlin.isArray = function (a) {\n return a instanceof
Int32Array;\n};\n\nKotlin.isFloatArray = function (a) {\n return a instanceof
Float32Array;\n};\n\nKotlin.isDoubleArray = function (a) {\n return a instanceof
Float64Array;\n};\n\nKotlin.isLongArray = function (a) {\n return Array.isArray(a) && a.$type$ ===
\"LongArray\";\n};\n\nKotlin.isArray = function (a) {\n return Array.isArray(a) &&
!a.$type$;\n};\n\nKotlin.isArrayish = function (a) {\n return Array.isArray(a) ||
ArrayBuffer.isView(a);\n};\n\nKotlin.arrayToString = function (a) {\n if (a === null) return \"null\";\n var
toString = Kotlin.isArray(a) ? String.fromCharCode : Kotlin.toString;\n return \"[\" +
Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\";\n};\n\nKotlin.arrayDeepToString
= function (arr) {\n return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n};\n\nKotlin.arrayEquals =
function (a, b) {\n if (a === b) {\n return true;\n }\n if (a === null || b === null || !Kotlin.isArrayish(b) ||
a.length !== b.length) {\n return false;\n }\n for (var i = 0, n = a.length; i < n; i++) {\n if
(!Kotlin.equals(a[i], b[i])) {\n return false;\n }\n }\n return true;\n};\n\nKotlin.arrayDeepEquals =
function (a, b) {\n return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n};\n\nKotlin.arrayHashCode =
function (arr) {\n if (arr === null) return 0;\n var result = 1;\n for (var i = 0, n = arr.length; i < n; i++) {\n
result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;\n }\n return result;\n};\n\nKotlin.arrayDeepHashCode =
function (arr) {\n return
Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n
array.sort(Kotlin.doubleCompareTo);\n};\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.getCallableRef = function(name, f) {\n f.callableName = name;\n return
f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n getter.get = getter;\n
getter.set = setter;\n getter.callableName = name;\n return getPropertyRefClass(getter, setter,
propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction getPropertyRefClass(obj, setter, cache) {\n
obj.$metadata$ = getPropertyRefMetadata(typeof setter === \"function\" ? cache.mutable : cache.immutable);\n
obj.constructor = obj;\n return obj;\n}\n\nvar propertyRefClassMetadataCache = [\n {\n mutable: { value:
null, implementedInterface: function () {\n return Kotlin.kotlin.reflect.KMutableProperty0 }\n },\n
immutable: { value: null, implementedInterface: function () {\n return Kotlin.kotlin.reflect.KProperty0 }\n
 }\n},\n {\n mutable: { value: null, implementedInterface: function () {\n return
Kotlin.kotlin.reflect.KMutableProperty1 }\n },\n immutable: { value: null, implementedInterface: function
() {\n return Kotlin.kotlin.reflect.KProperty1 }\n }\n }\n];\n\nfunction getPropertyRefMetadata(cache)
{\n if (cache.value === null) {\n cache.value = {\n interfaces: [cache.implementedInterface()],\n
baseClass: null,\n functions: {},\n properties: {},\n types: {},\n staticMembers: {}\n
};\n }\n return cache.value;\n}\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.toShort = function (a) {\n return (a & 0xFFFF) << 16 >>
16;\n};\n\nKotlin.toByteArray = function (a) {\n return (a & 0xFF) << 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n
return a & 0xFFFF;\n};\n\nKotlin.numberToLong = function (a) {\n return a instanceof Kotlin.Long ? a :
Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt = function (a) {\n return a instanceof Kotlin.Long ?
a.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort = function (a) {\n return
Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n return
Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n return
+a;\n};\n\nKotlin.numberToChar = function (a) {\n return

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Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n if (a > 2147483647) return
2147483647;\n if (a < -2147483648) return -2147483648;\n return a | 0;\n};\n\nKotlin.toBoxedChar = function
(a) {\n if (a == null) return a;\n if (a instanceof Kotlin.BoxedChar) return a;\n return new
Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a) {\n if (a == null) return a;\n return
Kotlin.toChar(a);\n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.equals = function (obj1, obj2) {\n if (obj1 == null) {\n return obj2 ==
null;\n }\n if (obj2 == null) {\n return false;\n }\n if (obj1 !== obj2) {\n return obj2 !== obj2;\n }\n if (typeof obj1 === "object" && typeof obj1.equals === "function") {\n return obj1.equals(obj2);\n }\n if (typeof obj1 === "number" && typeof obj2 === "number") {\n return obj1 === obj2 && (obj1 !==
0 || 1 / obj1 === 1 / obj2);\n }\n return obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n if (obj ==
null) {\n return 0;\n }\n var objType = typeof obj;\n if ("object" === objType) {\n return "function"
=== typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\n }\n if ("function" === objType) {\n
return getObjectHashCode(obj);\n }\n if ("number" === objType) {\n return
Kotlin.numberHashCode(obj);\n }\n if ("boolean" === objType) {\n return Number(obj)\n }\n var str
= String(obj);\n return getStringHashCode(str);\n};\n\nKotlin.toString = function (o) {\n if (o == null) {\n
return "null";\n }\n else if (Kotlin.isArrayish(o)) {\n return "["+...";\n }\n else {\n return
o.toString();\n }\n};\n\n/** @const */\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to Symbol
type once we are on ES6.\n/** @const */\nvar OBJECT_HASH_CODE_PROPERTY_NAME =
"__kotlinHashCodeValue$";\n\nfunction getObjectHashCode(obj) {\n if
(! (OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n var hash = (Math.random() * POW_2_32) | 0; //
Make 32-bit signed integer.\n Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, {\n
value: hash, enumerable: false });\n }\n return
obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n var hash = 0;\n
for (var i = 0; i < str.length; i++) {\n var code = str.charCodeAt(i);\n hash = (hash * 31 + code) | 0; // Keep
it 32-bit.\n }\n return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n\n/*\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by
the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Copyright 2009 The Closure
Library Authors. All Rights Reserved.\n// Licensed under the Apache License, Version 2.0 (the "License");\n//
you may not use this file except in compliance with the License.\n// You may obtain a copy of the License at\n//
http://www.apache.org/licenses/LICENSE-2.0\n// Unless required by applicable law or agreed to in writing,
software\n// distributed under the License is distributed on an "AS-IS" BASIS,\n// WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.\n\n/**\n * Constructs a 64-bit two's-complement integer,
given its low and high 32-bit\n * values as *signed* integers. See the from* functions below for more\n *
convenient ways of constructing Longs.\n * The internal representation of a long is the two given signed, 32-bit
values.\n * We use 32-bit pieces because these are the size of integers on which\n * Javascript performs bit-
operations. For operations like addition and\n * multiplication, we split each number into 16-bit pieces, which can
easily be\n * multiplied within Javascript's floating-point representation without overflow\n * or change in sign.\n
*\n * In the algorithms below, we frequently reduce the negative case to the\n * positive case by negating the
input(s) and then post-processing the result.\n * Note that we must ALWAYS check specially whether those values
are MIN_VALUE\n * (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as\n * a
positive number, it overflows back into a negative). Not handling this\n * case would often result in infinite
recursion.\n */\n * @param {number} low The low (signed) 32 bits of the long.\n * @param {number} high The
high (signed) 32 bits of the long.\n * @constructor\n * @final\n */\nKotlin.Long = function(low, high) {\n /**\n
 * @type {number}\n * @private\n */\n this.low_ = low | 0; // force into 32 signed bits.\n\n /**\n
 * @type
{number}\n * @private\n */\n this.high_ = high | 0; // force into 32 signed bits.\n};\n\nKotlin.Long.$metadata$ =
{\n kind: "class",\n simpleName: "Long",\n interfaces: [];\n};\n\n// NOTE: Common constant values
ZERO, ONE, NEG_ONE, etc. are defined below the\n// from* methods on which they depend.\n\n/**\n * A cache

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of the Long representations of small integer values.\n * @type {!Object}\n * @private\n * ^\nKotlin.Long.IntCache_
= { };\n\n/**\n * Returns a Long representing the given (32-bit) integer value.\n * @param {number} value The
32-bit integer in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n * ^\nKotlin.Long.fromInt =
function(value) {\n if (-128 <= value && value < 128) {\n var cachedObj = Kotlin.Long.IntCache_[value];\n if
(cachedObj) {\n return cachedObj;\n }\n }\n\n var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\n if (-
128 <= value && value < 128) {\n Kotlin.Long.IntCache_[value] = obj;\n }\n return obj;\n};\n\n/**\n *
Converts this number value to `Long`. \n * The fractional part, if any, is rounded down towards zero.\n * Returns
zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`, \n *
`Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`. \n * @param {number} value The number in
question.\n * @return {!Kotlin.Long} The corresponding Long value.\n * ^\nKotlin.Long.fromNumber =
function(value) {\n if (isNaN(value)) {\n return Kotlin.Long.ZERO;\n } else if (value <= -
Kotlin.Long.TWO_PWR_63_DBL_) {\n return Kotlin.Long.MIN_VALUE;\n } else if (value + 1 >=
Kotlin.Long.TWO_PWR_63_DBL_) {\n return Kotlin.Long.MAX_VALUE;\n } else if (value < 0) {\n return
Kotlin.Long.fromNumber(-value).negate();\n } else {\n return new Kotlin.Long(\n (value %
Kotlin.Long.TWO_PWR_32_DBL_) | 0,\n (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);\n
}\n};\n\n/**\n * Returns a Long representing the 64-bit integer that comes by concatenating\n * the given high and
low bits. Each is assumed to use 32 bits.\n * @param {number} lowBits The low 32-bits.\n * @param {number}
highBits The high 32-bits.\n * @return {!Kotlin.Long} The corresponding Long value.\n * ^\nKotlin.Long.fromBits
= function(lowBits, highBits) {\n return new Kotlin.Long(lowBits, highBits);\n};\n\n/**\n * Returns a Long
representation of the given string, written using the given\n * radix.\n * @param {string} str The textual
representation of the Long.\n * @param {number=} opt_radix The radix in which the text is written.\n * @return
{!Kotlin.Long} The corresponding Long value.\n * ^\nKotlin.Long.fromString = function(str, opt_radix) {\n if
(str.length == 0) {\n throw Error('number format error: empty string');\n }\n\n var radix = opt_radix || 10;\n if
(radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n }\n\n if (str.charAt(0) == '-') {\n return
Kotlin.Long.fromString(str.substring(1), radix).negate();\n } else if (str.indexOf('-') >= 0) {\n throw Error('number
format error: interior \"-\" character: ' + str);\n }\n\n // Do several (8) digits each time through the loop, so as to\n //
minimize the calls to the very expensive emulated div.\n var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 8));\n var result = Kotlin.Long.ZERO;\n for (var i = 0; i < str.length;
i += 8) {\n var size = Math.min(8, str.length - i);\n var value = parseInt(str.substring(i, i + size), radix);\n if
(size < 8) {\n var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n result =
result.multiply(power).add(Kotlin.Long.fromNumber(value));\n } else {\n result =
result.multiply(radixToPower);\n result = result.add(Kotlin.Long.fromNumber(value));\n }\n }\n return
result;\n};\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these
variables, so there should be no runtime penalty for these.\n\n/**\n * Number used repeated below in calculations.
This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_32_DBL_ =\n Kotlin.Long.TWO_PWR_16_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_31_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n/**\n * @type
{number}\n * @private\n
*\nKotlin.Long.TWO_PWR_48_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_64_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_63_DBL_ =\n Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n/**\n * @type
{!Kotlin.Long}\n * ^\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n/**\n * @type {!Kotlin.Long}\n
*\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n/**\n * @type {!Kotlin.Long}\n * ^\nKotlin.Long.NEG_ONE =
Kotlin.Long.fromInt(-1);\n\n/**\n * @type {!Kotlin.Long}\n * ^\nKotlin.Long.MAX_VALUE =\n

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Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n/** @type {!Kotlin.Long}
*\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n/**\n * @type {!Kotlin.Long}\n *
@private\n *\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\n\n\n/** @return {number} The
value, assuming it is a 32-bit integer. *\nKotlin.Long.prototype.toInt = function() {\n return this.low_;\n};\n\n\n/**
@return {number} The closest floating-point representation to this value. *\nKotlin.Long.prototype.toNumber =
function() {\n return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\n
this.getLowBitsUnsigned();\n};\n\n\n/** @return {number} The 32-bit hashCode of this value.
*\nKotlin.Long.prototype.hashCode = function() {\n return this.high_ ^ this.low_;\n};\n\n\n/**\n * @param
{number=} opt_radix The radix in which the text should be written.\n * @return {string} The textual representation
of this value.\n * @override\n *\nKotlin.Long.prototype.toString = function(opt_radix) {\n var radix = opt_radix ||
10;\n if (radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n }\n\n if (this.isZero()) {\n
return '0';\n }\n\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n // We need to
change the Long value before it can be negated, so we remove\n // the bottom-most digit in this base and then
recurse to do the rest.\n var radixLong = Kotlin.Long.fromNumber(radix);\n var div = this.div(radixLong);\n
var rem = div.multiply(radixLong).subtract(this);\n return div.toString(radix) + rem.toInt().toString(radix);\n }
else {\n return '-' + this.negate().toString(radix);\n }\n }\n\n // Do several (6) digits each time through the loop,
so as to\n // minimize the calls to the very expensive emulated div.\n var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 6));\n var rem = this;\n var result = '';\n while (true) {\n var
remDiv = rem.div(radixToPower);\n var intVal = rem.subtract(remDiv.multiply(radixToPower)).toInt();\n var
digits = intVal.toString(radix);\n rem = remDiv;\n if (rem.isZero()) {\n return digits + result;\n } else {\n
while (digits.length < 6) {\n digits = '0' + digits;\n }\n result = " + digits + result;\n }\n }\n};\n\n\n/**
@return {number} The high 32-bits as a signed value. *\nKotlin.Long.prototype.getHighBits = function() {\n
return this.high_;\n};\n\n\n/** @return {number} The low 32-bits as a signed value.
*\nKotlin.Long.prototype.getLowBits = function() {\n return this.low_;\n};\n\n\n/** @return {number} The low
32-bits as an unsigned value. *\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\n return (this.low_ >=
0) ?\n this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};\n\n\n/**\n * @return {number} Returns
the number of bits needed to represent the absolute\n * value of this Long.\n
*\nKotlin.Long.prototype.getNumBitsAbs = function() {\n if (this.isNegative()) {\n if
(this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return 64;\n } else {\n return
this.negate().getNumBitsAbs();\n }\n } else {\n var val = this.high_ != 0 ? this.high_ : this.low_;\n for (var bit
= 31; bit > 0; bit--) {\n if ((val & (1 << bit)) != 0) {\n break;\n }\n }\n return this.high_ != 0 ? bit + 33
: bit + 1;\n }\n};\n\n\n/** @return {boolean} Whether this value is zero. *\nKotlin.Long.prototype.isZero =
function() {\n return this.high_ == 0 && this.low_ == 0;\n};\n\n\n/** @return {boolean} Whether this value is
negative. *\nKotlin.Long.prototype.isNegative = function() {\n return this.high_ < 0;\n};\n\n\n/** @return
{boolean} Whether this value is odd. *\nKotlin.Long.prototype.isOdd = function() {\n return (this.low_ & 1) ==
1;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this
Long equals the other.\n *\nKotlin.Long.prototype.equalsLong = function(other) {\n return (this.high_ ==
other.high_) && (this.low_ == other.low_);\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare
against.\n * @return {boolean} Whether this Long does not equal the other.\n
*\nKotlin.Long.prototype.notEqualsLong = function(other) {\n return (this.high_ != other.high_) || (this.low_ !=
other.low_);\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean}
Whether this Long is less than the other.\n *\nKotlin.Long.prototype.lessThan = function(other) {\n return
this.compare(other) < 0;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return
{boolean} Whether this Long is less than or equal to the other.\n *\nKotlin.Long.prototype.lessThanOrEqual =
function(other) {\n return this.compare(other) <= 0;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to
compare against.\n * @return {boolean} Whether this Long is greater than the other.\n
*\nKotlin.Long.prototype.greaterThan = function(other) {\n return this.compare(other) > 0;\n};\n\n\n/**\n *
@param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than or

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equal to the other.\n */\nKotlin.Long.prototype.greaterThanOrEqualTo = function(other) {\n return
this.compare(other) >= 0;\n};\n\n/**\n * Compares this Long with the given one.\n * @param {Kotlin.Long}
other Long to compare against.\n * @return {number} 0 if they are the same, 1 if the this is greater, and -1\n * if
the given one is greater.\n */\nKotlin.Long.prototype.compare = function(other) {\n if (this.equalsLong(other)) {\n
return 0;\n }\n\n var thisNeg = this.isNegative();\n var otherNeg = other.isNegative();\n if (thisNeg &&
!otherNeg) {\n return -1;\n }\n if (!thisNeg && otherNeg) {\n return 1;\n }\n\n // at this point, the signs are the
same, so subtraction will not overflow\n if (this.subtract(other).isNegative()) {\n return -1;\n } else {\n return
1;\n }\n};\n\n/**\n * @return {!Kotlin.Long} The negation of this value. *\nKotlin.Long.prototype.negate =
function() {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.MIN_VALUE;\n } else
{\n return this.not().add(Kotlin.Long.ONE);\n }\n};\n\n/**\n * Returns the sum of this and the given Long.\n *
@param {Kotlin.Long} other Long to add to this one.\n * @return {!Kotlin.Long} The sum of this and the given
Long.\n */\nKotlin.Long.prototype.add = function(other) {\n // Divide each number into 4 chunks of 16 bits, and
then sum the chunks.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 = this.low_
>>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n
var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00
+= a00 + b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 + b16;\n c32 += c16 >>> 16;\n c16 &=
0xFFFF;\n c32 += a32 + b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 + b48;\n c48 &=
0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n/**\n * Returns the
difference of this and the given Long.\n * @param {Kotlin.Long} other Long to subtract from this.\n * @return
{!Kotlin.Long} The difference of this and the given Long.\n */\nKotlin.Long.prototype.subtract = function(other)
{\n return this.add(other.negate());\n};\n\n/**\n * Returns the product of this and the given long.\n * @param
{Kotlin.Long} other Long to multiply with this.\n * @return {!Kotlin.Long} The product of this and the other.\n
*/\nKotlin.Long.prototype.multiply = function(other) {\n if (this.isZero()) {\n return Kotlin.Long.ZERO;\n } else
if (other.isZero()) {\n return Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n
return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return this.isOdd() ? Kotlin.Long.MIN_VALUE :
Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n if (other.isNegative()) {\n return
this.negate().multiply(other.negate());\n } else {\n return this.negate().multiply(other).negate();\n }\n } else if
(other.isNegative()) {\n return this.multiply(other.negate()).negate();\n }\n\n // If both longs are small, use float
multiplication\n if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\n
other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n return Kotlin.Long.fromNumber(this.toNumber() *
other.toNumber());\n }\n\n // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\n // We can
skip products that would overflow.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 =
this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ &
0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00
= 0;\n c00 += a00 * b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 * b00;\n c32 += c16 >>> 16;\n
c16 &= 0xFFFF;\n c32 += a32 * b00;\n c48 +=
c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a16 * b16;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a00 *
b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 * b48;\n c48
&= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n/**\n * Returns this
Long divided by the given one.\n * @param {Kotlin.Long} other Long by which to divide.\n * @return
{!Kotlin.Long} This Long divided by the given one.\n */\nKotlin.Long.prototype.div = function(other) {\n if
(other.isZero()) {\n throw Error('division by zero');\n } else if (this.isZero()) {\n return Kotlin.Long.ZERO;\n
}\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n if (other.equalsLong(Kotlin.Long.ONE) ||\n
other.equalsLong(Kotlin.Long.NEG_ONE)) {\n return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE
== MIN_VALUE\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ONE;\n }
else {\n // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|. \n var halfThis =
this.shiftRight(1);\n var approx = halfThis.div(other).shiftLeft(1);\n if

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(approx.equalsLong(Kotlin.Long.ZERO)) {\n return other.isNegative() ? Kotlin.Long.ONE :
Kotlin.Long.NEG_ONE;\n } else {\n var rem = this.subtract(other.multiply(approx));\n var result =
approx.add(rem.div(other));\n return result;\n }\n }\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n
if (other.isNegative()) {\n return this.negate().div(other.negate());\n } else {\n return
this.negate().div(other).negate();\n }\n } else if (other.isNegative()) {\n return
this.div(other.negate()).negate();\n }\n\n // Repeat the following until the remainder is less than other: find a\n //
floating-point that approximates remainder / other *from below*, add this\n // into the result, and subtract it from
the remainder. It is critical that\n // the approximate value is less than or equal to the real value so that the\n //
remainder never becomes negative.\n var res = Kotlin.Long.ZERO;\n var rem = this;\n while
(rem.greaterThanOrEqual(other)) {\n // Approximate the result of division. This may be a little greater or\n //
smaller than the actual value.\n var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\n\n
// We will tweak the approximate result by changing it in the 48-th digit or\n // the smallest non-fractional digit,
whichever is larger.\n var log2 = Math.ceil(Math.log(approx) / Math.LN2);\n var delta = (log2 <= 48) ? 1 :
Math.pow(2, log2 - 48);\n\n // Decrease the approximation until it is smaller than the remainder. Note\n // that if
it is too large, the product overflows and is negative.\n var approxRes = Kotlin.Long.fromNumber(approx);\n var
approxRem = approxRes.multiply(other);\n while (approxRem.isNegative() || approxRem.greaterThan(rem))
{\n approx -= delta;\n approxRes = Kotlin.Long.fromNumber(approx);\n approxRem =
approxRes.multiply(other);\n }\n\n // We know the answer can't be zero... and actually, zero would cause\n //
infinite recursion since we would make no progress.\n if (approxRes.isZero()) {\n approxRes =
Kotlin.Long.ONE;\n }\n\n res = res.add(approxRes);\n rem = rem.subtract(approxRem);\n }\n return
res;\n};\n\n\n/**\n * Returns this Long modulo the given one.\n * @param {Kotlin.Long} other Long by which to
mod.\n * @return {!Kotlin.Long} This Long modulo the given one.\n */\nKotlin.Long.prototype.modulo =
function(other) {\n return this.subtract(this.div(other).multiply(other));\n};\n\n\n/**\n * @return {!Kotlin.Long} The
bitwise-NOT of this value. *\nKotlin.Long.prototype.not = function() {\n return Kotlin.Long.fromBits(~this.low_,
~this.high_);\n};\n\n\n/**\n * Returns the bitwise-AND of this Long and the given one.\n * @param {Kotlin.Long}
other The Long with which to AND.\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\n */\n
*\nKotlin.Long.prototype.and = function(other) {\n return Kotlin.Long.fromBits(this.low_ & other.low_,\n
this.high_ & other.high_);\n};\n\n\n/**\n * Returns the bitwise-OR of this Long and the given one.\n *
@param {Kotlin.Long} other The Long with which to OR.\n * @return {!Kotlin.Long} The bitwise-OR of this and
the other.\n */\n*\nKotlin.Long.prototype.or = function(other) {\n return Kotlin.Long.fromBits(this.low_ |
other.low_,\nthis.high_ | other.high_);\n};\n\n\n/**\n * Returns the bitwise-XOR of this Long
and the given one.\n * @param {Kotlin.Long} other The Long with which to XOR.\n * @return {!Kotlin.Long}
The bitwise-XOR of this and the other.\n */\n*\nKotlin.Long.prototype.xor = function(other) {\n return
Kotlin.Long.fromBits(this.low_ ^ other.low_,\nthis.high_ ^ other.high_);\n};\n\n\n/**\n * Returns this Long with bits shifted to the left by the given amount.\n *
@param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\n */\n
*\nKotlin.Long.prototype.shiftLeft = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return
this;\n } else {\n var low = this.low_;\n if (numBits < 32) {\n var high = this.high_;\n return
Kotlin.Long.fromBits(\n low << numBits,\n (high << numBits) | (low >>> (32 - numBits));\n);\n } else
{\n return Kotlin.Long.fromBits(0, low << (numBits - 32));\n }\n }\n};\n\n\n/**\n * Returns this Long with
bits shifted to the right by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n *
@return {!Kotlin.Long} This shifted to the right by the given amount.\n */\n*\nKotlin.Long.prototype.shiftRight =
function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return this;\n } else {\n var high = this.high_;\n
if (numBits < 32) {\n var low = this.low_;\n return Kotlin.Long.fromBits(\n (low >>> numBits) | (high
<<< (32 - numBits)),\n high >> numBits);\n } else {\n return Kotlin.Long.fromBits(\n high >>
(numBits - 32),\n high >= 0 ? 0 : -1);\n }\n }\n};\n\n\n/**\n * Returns this Long with bits shifted to the right
by the given amount, with\n * zeros placed into the new leading bits.\n * @param {number} numBits The number

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of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\n * zeros
placed into the new leading bits.\n */\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\n numBits
&= 63;\n if (numBits == 0) {\n return this;\n } else {\n var high = this.high_;\n if (numBits < 32) {\n var
low = this.low_;\n return Kotlin.Long.fromBits((low >>> numBits) | (high << (32 - numBits)),\n
high >>> numBits);\n } else if (numBits == 32) {\n return Kotlin.Long.fromBits(high, 0);\n } else {\n
return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\n }\n }\n};\n\n// Support for
Kotlin\nKotlin.Long.prototype.equals = function (other) {\n return other instanceof Kotlin.Long &&
this.equalsLong(other);\n};\n\nKotlin.Long.prototype.compareTo_11rb$ =
Kotlin.Long.prototype.compareTo;\n\nKotlin.Long.prototype.inc = function() {\n return
this.add(Kotlin.Long.ONE);\n};\n\nKotlin.Long.prototype.dec = function() {\n return
this.add(Kotlin.Long.NEG_ONE);\n};\n\nKotlin.Long.prototype.valueOf = function() {\n return
this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n return
this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\nKotlin.Long.prototype.inv =
Kotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n return new
Kotlin.kotlin.ranges.LongRange(this, other);\n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\nKotlin.Long.prototype.toString = function (id) {\n * @param {string} id\n * @param {Object} declaration\n
*/\n\nKotlin.defineModule = function (id, declaration) {\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n
return fun;\n};\n\nKotlin.wrapFunction = function(fun) {\n var f = function() {\n f = fun();\n return
f.apply(this, arguments);\n }; \n return function() {\n return f.apply(this, arguments);\n
};\n};\n\nKotlin.isTypeOf = function(type) {\n return function (object) {\n return typeof object === type;\n
}\n};\n\nKotlin.isInstanceOf = function (klass) {\n return function (object) {\n return Kotlin.isType(object,
klass);\n }\n};\n\nKotlin.orNull = function (fn) {\n return function (object) {\n return object == null ||
fn(object);\n }\n};\n\nKotlin.andPredicate = function (a, b) {\n return function (object) {\n return a(object)
&& b(object);\n }\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data)
{\n};\n\nKotlin.suspendCall = function(value) {\n return value;\n};\n\nKotlin.coroutineResult = function(qualifier)
{\n throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.coroutineReceiver = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n
throwMarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType = function(typeParameter) {\n
throwMarkerError();\n};\n\nfunction throwMarkerError() {\n throw new Error(\n "This marker function
should never be called. " +\n "Looks like compiler did not eliminate it properly. " +\n "Please, report
an issue if you caught this exception.");\n}\n\nKotlin.getFunctionById = function(id, defaultValue) {\n return
function() {\n return defaultValue;\n }\n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\nKotlin.compareTo = function (a, b) {\n var typeA = typeof a;\n if
(typeA === "number") {\n if (typeof b === "number") {\n return Kotlin.doubleCompareTo(a, b);\n
}\n return Kotlin.primitiveCompareTo(a, b);\n }\n if (typeA === "string" || typeA === "boolean") {\n
return Kotlin.primitiveCompareTo(a, b);\n }\n return
a.compareTo_11rb$(b);\n};\n\nKotlin.primitiveCompareTo = function (a, b) {\n return a < b ? -1 : a > b ? 1 :
0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n if (a < b) return -1;\n if (a > b) return 1;\n\n if (a ===
b) {\n if (a !== 0) return 0;\n\n var ia = 1 / a;\n return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n }\n\n
return a !== a ? (b !== b ? 0 : 1) : -1;\n};\n\nKotlin.charInc = function (value) {\n return
Kotlin.toChar(value+1);\n};\n\nKotlin.charDec = function (value) {\n return Kotlin.toChar(value-
1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a, b) {\n return ((a &
0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\n(function() {\n var buf = new ArrayBuffer(8);\n var
bufFloat64 = new Float64Array(buf);\n var bufFloat32 = new Float32Array(buf);\n var bufInt32 = new
Int32Array(buf);\n var lowIndex = 0;\n var highIndex = 1;\n\n bufFloat64[0] = -1; // bff00000_00000000\n if

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(bufInt32[lowIndex] !== 0) {\n lowIndex = 1;\n highIndex = 0;\n };\n Kotlin.doubleToBits =
function(value) {\n return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n };;\n
Kotlin.doubleToRawBits = function(value) {\n bufFloat64[0] = value;\n return
Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n };;\n Kotlin.doubleFromBits =
function(value) {\n bufInt32[lowIndex] = value.low_;\n bufInt32[highIndex] = value.high_;\n return
bufFloat64[0];\n };;\n Kotlin.floatToBits = function(value) {\n return Kotlin.floatToRawBits(isNaN(value)
? NaN : value);\n };;\n Kotlin.floatToRawBits = function(value) {\n bufFloat32[0] = value;\n return
bufInt32[0];\n };;\n Kotlin.floatFromBits = function(value) {\n bufInt32[0] = value;\n return
bufFloat32[0];\n };;\n // returns zero value for number with positive sign bit and non-zero value for number
with negative sign bit.\n Kotlin.doubleSignBit = function(value) {\n bufFloat64[0] = value;\n return
bufInt32[highIndex] & 0x80000000;\n };;\n Kotlin.numberHashCode = function(obj) {\n if ((obj | 0) ===
obj) {\n return obj | 0;\n } else {\n bufFloat64[0] = obj;\n return (bufInt32[highIndex]
* 31 | 0) + bufInt32[lowIndex] | 0;\n }\n };;\n Kotlin.ensureNotNull = function(x) {\n return x != null
? x : Kotlin.throwNPE();\n };;\n /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n nif (typeof String.prototype.startsWith === "undefined") {\n
Object.defineProperty(String.prototype, "startsWith", {\n value: function (searchString, position) {\n
position = position || 0;\n return this.lastIndexOf(searchString, position) === position;\n }\n });;\n nif
(typeof String.prototype.endsWith === "undefined") {\n Object.defineProperty(String.prototype, "endsWith",
{\n value: function (searchString, position) {\n var subjectString = this.toString();\n if (position
=== undefined || position > subjectString.length) {\n position = subjectString.length;\n }\n
position -= searchString.length;\n var lastIndex = subjectString.indexOf(searchString, position);\n
return lastIndex !== -1 && lastIndex === position;\n }\n });;\n // ES6 Math polyfills\n nif (typeof Math.sign
=== "undefined") {\n Math.sign = function(x) {\n x = +x; // convert to a number\n if (x === 0 ||
isNaN(x)) {\n return Number(x);\n }\n return x > 0 ? 1 : -1;\n };;\n nif (typeof Math.trunc
=== "undefined") {\n Math.trunc = function(x) {\n if (isNaN(x)) {\n return NaN;\n }\n
if (x > 0) {\n return Math.floor(x);\n }\n return Math.ceil(x);\n };;\n\n(function() {\n var epsilon =
2.220446049250313E-16;\n var taylor_2_bound = Math.sqrt(epsilon);\n var taylor_n_bound =
Math.sqrt(taylor_2_bound);\n var upper_taylor_2_bound = 1/taylor_2_bound;\n var upper_taylor_n_bound =
1/taylor_n_bound;\n if (typeof Math.sinh === "undefined") {\n Math.sinh = function(x) {\n if
(Math.abs(x) < taylor_n_bound) {\n var result = x;\n if (Math.abs(x) > taylor_2_bound) {\n
 result += (x * x * x) / 6;\n }\n return result;\n } else {\n var y =
Math.exp(x);\n var y1 = 1 / y;\n if (!isFinite(y)) return Math.exp(x - Math.LN2);\n if
(!isFinite(y1)) return -Math.exp(-x - Math.LN2);\n return (y - y1) / 2;\n }\n };;\n } if
(typeof Math.cosh === "undefined") {\n Math.cosh = function(x) {\n var y = Math.exp(x);\n var
y1 = 1 / y;\n if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) - Math.LN2);\n return (y +
y1) / 2;\n };;\n } if (typeof Math.tanh === "undefined") {\n Math.tanh = function(x) {\n if
(Math.abs(x) < taylor_n_bound) {\n var result = x;\n if (Math.abs(x) > taylor_2_bound) {\n
 result -= (x * x * x) / 3;\n }\n return result;\n } else {\n var a =
Math.exp(+x), b = Math.exp(-x);\n return a === Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n }\n };;\n };\n\n // Inverse hyperbolic function implementations derived from boost special math functions,\n
// Copyright Eric Ford & Hubert Holin 2001.\n nif (typeof Math.asinh === "undefined") {\n var asinh =
function(x) {\n if (x >= +taylor_n_bound)\n {\n if (x > upper_taylor_n_bound)\n {\n if (x > upper_taylor_2_bound)\n {\n // approximation by laurent series in
1/x at 0+ order from -1 to 0\n return Math.log(x) + Math.LN2;\n }\n else\n {\n // approximation by laurent series in 1/x at 0+ order from -1 to 1\n return
Math.log(x * 2 + (1 / (x * 2)));\n }\n }\n else\n {\n return
Math.log(x + Math.sqrt(x * x + 1));\n }\n }\n else if (x <= -taylor_n_bound)\n {\n

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 return -asinh(-x);\n }\n else\n {\n // approximation by taylor series in x at 0 up to
order 2\n var result = x;\n if (Math.abs(x) >= taylor_2_bound)\n {\n var x3 =
x * x * x;\n // approximation by taylor series in x at 0 up to order 4\n result -= x3 / 6;\n }\n return result;\n }\n }; \n Math.asinh = asinh;\n }\n if (typeof Math.acosh ===
\"undefined\") {\n Math.acosh = function(x) {\n if (x < 1)\n {\n return NaN;\n }\n else if (x - 1 >= taylor_n_bound)\n {\n if (x > upper_taylor_2_bound)\n {\n // approximation by laurent series in 1/x at 0+ order from -1 to 0\n return Math.log(x) + Math.LN2;\n }\n else\n {\n return Math.log(x + Math.sqrt(x * x - 1));\n }\n }\n }\n }\n }\n else\n {\n var y = Math.sqrt(x - 1);\n // approximation by taylor series in y at 0
up to order 2\n var result = y;\n if (y >= taylor_2_bound)\n {\n var y3 = y *
y * y;\n // approximation by taylor series in y at 0 up to order 4\n result -= y3 / 12;\n }\n }\n }\n return Math.sqrt(2) * result;\n }\n }; \n }\n if (typeof Math.atanh === \"undefined\")
{\n Math.atanh = function(x) {\n if (Math.abs(x) < taylor_n_bound) {\n var result = x;\n }\n if (Math.abs(x) > taylor_2_bound) {\n result += (x * x * x) / 3;\n }\n return result;\n }\n }\n return Math.log((1 + x) / (1 - x)) / 2;\n }; \n }\n if (typeof Math.log1p === \"undefined\") {\n Math.log1p = function(x) {\n if (Math.abs(x) < taylor_n_bound) {\n var x2 = x * x;\n var x3 = x2 * x;\n var x4 = x3 * x;\n // approximation by taylor series in x at 0 up to order 4\n return (-x4 / 4 + x3 / 3 - x2 / 2 + x);\n }\n return Math.log(x + 1);\n }; \n }\n if (typeof
Math.expm1 === \"undefined\") {\n Math.expm1 = function(x) {\n if (Math.abs(x) < taylor_n_bound)
{\n var x2 = x * x;\n var x3 = x2 * x;\n var x4 = x3 * x;\n // approximation by
taylor series in x at 0 up to order 4\n return (x4 / 24 + x3 / 6 + x2 / 2 + x);\n }\n return
Math.exp(x) - 1;\n }; \n }\n }\n }\n if (typeof Math.hypot === \"undefined\") {\n Math.hypot = function() {\n var y = 0;\n var length = arguments.length;\n for (var i = 0; i < length; i++) {\n if (arguments[i]
=== Infinity || arguments[i] === -Infinity) {\n return Infinity;\n }\n y += arguments[i] *
arguments[i];\n }\n return Math.sqrt(y);\n }; \n }\n }\n if (typeof Math.log10 === \"undefined\") {\n Math.log10 = function(x) {\n return Math.log(x) * Math.LOG10E;\n }; \n }\n }\n if (typeof Math.log2 ===
\"undefined\") {\n Math.log2 = function(x) {\n return Math.log(x) * Math.LOG2E;\n }; \n }\n }\n if (typeof
Math.clz32 === \"undefined\") {\n Math.clz32 = (function(log, LN2) {\n return function(x) {\n var
asUint = x >>> 0;\n if (asUint === 0) {\n return 32;\n }\n return 31 - (log(asUint) /
LN2 | 0) | 0; // the \"| 0\" acts like math.floor\n }\n })(Math.log, Math.LN2);\n }\n }\n }\n // For HtmlUnit and
PhantomJs\n if (typeof ArrayBuffer.isView === \"undefined\") {\n ArrayBuffer.isView = function(a) {\n return a != null && a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\n }; \n }\n }\n }\n if (typeof Array.prototype.fill === \"undefined\") {\n // Polyfill from https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n Object.defineProperty(Array.prototype, 'fill', {\n value: function (value) {\n // Steps 1-2.\n if (this == null) {\n throw new
TypeError('this is null or not defined');\n }\n var O = Object(this);\n // Steps 3-5.\n var len = O.length >>> 0;\n // Steps 6-7.\n var start = arguments[1];\n var relativeStart = start
>> 0;\n // Step 8.\n var k = relativeStart < 0 ?\n Math.max(len + relativeStart, 0) :\n Math.min(relativeStart, len);\n // Steps 9-10.\n var end = arguments[2];\n var
relativeEnd = end === undefined ?\n len : end >> 0;\n // Step 11.\n var finalValue
= relativeEnd < 0 ?\n Math.max(len + relativeEnd, 0) :\n Math.min(relativeEnd,
len);\n // Step 12.\n while (k < finalValue) {\n O[k] = value;\n k++;\n }\n }\n });\n }\n }\n }\n if (typeof function normalizeOffset(offset, length) {\n if (offset < 0) return Math.max(0, offset + length);\n return Math.min(offset, length);\n } function
typedArraySlice(begin, end) {\n if (typeof end === \"undefined\") {\n end = this.length;\n }\n begin = normalizeOffset(begin || 0, this.length);\n end = Math.max(begin, normalizeOffset(end, this.length));\n return new this.constructor(this.subarray(begin, end));\n } {\n var arrays = [Int8Array, Int16Array,
Uint16Array, Int32Array, Float32Array, Float64Array];\n for (var i = 0; i < arrays.length; ++i) {\n var

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TypedArray = arrays[i];\n if (typeof TypedArray.prototype.fill === \"undefined\") {\nObject.defineProperty(TypedArray.prototype, 'fill', {\n value: Array.prototype.fill\n});\n}\nif (typeof TypedArray.prototype.slice === \"undefined\") {\n Object.defineProperty(TypedArray.prototype,\n'slice', {\n value: typedArraySlice\n});\n}\n\n // Patch apply to work with TypedArrays\nif needed.\n try {\n (function() {}).apply(null, new Int32Array(0))\n } catch (e) {\n var apply =\nFunction.prototype.apply;\n Object.defineProperty(Function.prototype, 'apply', {\n value: function(self,\narray) {\n return apply.call(this, self, [].slice.call(array));\n }\n});\n}\n\n // Patch map to\nwork with TypedArrays if needed.\n for (var i = 0; i < arrays.length; ++i) {\n var TypedArray = arrays[i];\n if (typeof TypedArray.prototype.map === \"undefined\") {\n Object.defineProperty(TypedArray.prototype,\n'map', {\n value: function(callback, self) {\n return [].slice.call(this).map(callback, self);\n }\n});\n}\n}\n\n // Patch sort to work with TypedArrays if needed.\n // TODO: consider to\nremove following function and replace it with `Kotlin.doubleCompareTo` (see misc.js)\n var\ntotalOrderComparator = function (a, b) {\n if (a < b) return -1;\n if (a > b) return 1;\n if (a === b) {\n if (a !== 0) return 0;\n var ia = 1 / a;\n return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n }\n return a !== a ? (b !== b ? 0 : 1) : -1\n};\n\n for (var i = 0; i < arrays.length; ++i) {\n var TypedArray =\narrays[i];\n if (typeof TypedArray.prototype.sort === \"undefined\") {\nObject.defineProperty(TypedArray.prototype, 'sort', {\n value: function(compareFunction) {\nreturn Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\n }\n});\n}\n}\n}\n\n)();\n\";/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use\nof this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n*/\n\nKotlin.Kind = {\n CLASS: \"class\",\n INTERFACE: \"interface\",\n OBJECT:\n\"object\"\n};\n\nKotlin.callGetter = function (thisObject, klass, propertyName) {\n var propertyDescriptor =\nObject.getOwnPropertyDescriptor(klass, propertyName);\n if (propertyDescriptor != null &&\npropertyDescriptor.get != null) {\n return propertyDescriptor.get.call(thisObject);\n }\n propertyDescriptor =\nObject.getOwnPropertyDescriptor(thisObject, propertyName);\n if (propertyDescriptor != null && \"value\" in\npropertyDescriptor) {\n return thisObject[propertyName];\n }\n return Kotlin.callGetter(thisObject,\nObject.getPrototypeOf(klass), propertyName);\n};\n\nKotlin.callSetter = function (thisObject, klass, propertyName,\nvalue) {\n var propertyDescriptor =\nObject.getOwnPropertyDescriptor(klass, propertyName);\n if\n(propertyDescriptor != null && propertyDescriptor.set != null) {\n propertyDescriptor.set.call(thisObject,\nvalue);\n return;\n }\n propertyDescriptor =\nObject.getOwnPropertyDescriptor(thisObject,\npropertyName);\n if (propertyDescriptor != null && \"value\" in\npropertyDescriptor) {\n thisObject[propertyName] = value;\n return;\n }\n Kotlin.callSetter(thisObject,\nObject.getPrototypeOf(klass), propertyName, value);\n};\n\nfunction isInheritanceFromInterface(ctor, iface) {\n if\n(ctor === iface) return true;\n var metadata = ctor.$metadata$;\n if (metadata != null) {\n var interfaces =\nmetadata.interfaces;\n for (var i = 0; i < interfaces.length; i++) {\n if\n(isInheritanceFromInterface(interfaces[i], iface)) {\n return true;\n }\n }\n }\n var\nsuperPrototype = ctor.prototype != null ?\nObject.getPrototypeOf(ctor.prototype) : null;\n var\nsuperConstructor =\nsuperPrototype != null ?\nsuperPrototype.constructor : null;\n return\nsuperConstructor != null &&\nisInheritanceFromInterface(superConstructor, iface);\n}\n\n/**\n * @param {*\n * @param\n{*Function|Object} klass\n * @returns {Boolean}\n */\nKotlin.isType = function (object, klass) {\n if (klass ===\nObject) {\n switch (typeof object) {\n case \"string\":\n case \"number\":\n case\n\"boolean\":\n case \"function\":\n return true;\n default:\n return\nobject instanceof\nObject;\n }\n }\n if (object == null || klass == null || (typeof object !== 'object' && typeof object !==\n'function')) {\n return false;\n }\n if (typeof klass === \"function\" && object instanceof klass) {\n return true;\n }\n var\nproto =\nObject.getPrototypeOf(klass);\n var\nconstructor =\nproto != null ?\nproto.constructor : null;\n if (constructor != null && \"$metadata$\" in\nconstructor) {\n var\nmetadata =\nconstructor.$metadata$;\n if (metadata.kind === Kotlin.Kind.OBJECT) {\n return\nobject ===\nklass;\n }\n }\n var\nklassMetadata =\nklass.$metadata$;\n // In\nWebKit (JavaScriptCore) for some interfaces from
```

```

DOM typeOf returns "object", nevertheless they can be used in RHS of instanceof
 if (classMetadata == null)
 return object instanceof class;
 }
 if (classMetadata.kind === Kotlin.Kind.INTERFACE &&
 object.constructor != null) {
 return isInheritanceFromInterface(object.constructor, class);
 }
 return false;
};

Kotlin.isNumber = function (a) {
 return typeof a === "number" || a instanceof
 Kotlin.Long;
};

Kotlin.isChar = function (value) {
 return value instanceof
 Kotlin.BoxedChar;
};

Kotlin.isComparable = function (value) {
 var type = typeof value;
 return type
 === "string" ||
 type === "boolean" ||
 Kotlin.isNumber(value) ||
 Kotlin.isType(value,
 Kotlin.kotlin.Comparable);
};

Kotlin.isCharSequence = function (value) {
 return typeof value === "string"
 || Kotlin.isType(value, Kotlin.kotlin.CharSequence);
};

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 * Programming Language contributors.
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 * found in the license/LICENSE.txt file.
 */

@PublishedApi
external fun <T> Array(size: Int): Array<T>
@JsName("newArray")
fun <T> newArray(size: Int, initValue: T) = fillArrayVal(Array<T>(size),
 initValue)
@JsName("newArrayF")
inline fun <T> arrayWithFun(size: Int, init: (Int) -> T) =
 fillArrayFun(Array<T>(size), init)
@JsName("fillArray")
inline fun <T> fillArrayFun(array: Array<T>, init:
 (Int) -> T): Array<T> {
 for (i in 0..array.size - 1) {
 array[i] = init(i)
 }
 return
 array
}
@JsName("booleanArray")
fun booleanArray(size: Int, init: dynamic): Array<Boolean> {
 val
 result: dynamic = Array<Boolean>(size)
 result.`$type$` = "BooleanArray"
 return when (init) {
 null,
 true -> fillArrayVal(result, false)
 false -> result
 else -> fillArrayFun<Boolean>(result, init)
 }
}
@JsName("booleanArrayF")
inline fun booleanArrayWithFun(size: Int, init: (Int) -> Boolean):
 Array<Boolean> = fillArrayFun(booleanArray(size, false),
 init)
@JsName("charArray")
@Suppress("UNUSED_PARAMETER")
fun charArray(size: Int, init:
 dynamic): Array<Char> {
 val result = js("new Uint16Array(size)")
 result.`$type$` = "CharArray"
 return when (init) {
 null, true, false -> result // For consistency
 else -> fillArrayFun<Char>(result,
 init)
 }
}
@JsName("charArrayF")
inline fun charArrayWithFun(size: Int, init: (Int) -> Char):
 Array<Char> {
 val array = charArray(size, null)
 for (i in 0..array.size - 1) {
 @Suppress("UNUSED_VARIABLE") // used in js block
 val value = init(i)
 js("array[i] = value;")
 }
 return array
}
@JsName("untypedCharArrayF")
inline fun untypedCharArrayWithFun(size: Int, init:
 (Int) -> Char): Array<Char> {
 val array = Array<Char>(size)
 for (i in 0..array.size - 1) {
 @Suppress("UNUSED_VARIABLE") // used in js block
 val value = init(i)
 js("array[i] = value;")
 }
 return array
}
@JsName("longArray")
fun longArray(size: Int, init: dynamic): Array<Long> {
 val
 result: dynamic = Array<Long>(size)
 result.`$type$` = "LongArray"
 return when (init) {
 null, true ->
 fillArrayVal(result, 0L)
 false -> result
 else -> fillArrayFun<Long>(result, init)
 }
}
@JsName("longArrayF")
inline fun longArrayWithFun(size: Int, init: (Int) -> Long): Array<Long> =
 fillArrayFun(longArray(size, false), init)
private fun <T> fillArrayVal(array: Array<T>, initValue: T): Array<T>
{
 for (i in 0..array.size - 1) {
 array[i] = initValue
 }
 return array
}

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 * Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

package kotlin
public class
Enum<T : Enum<T>> : Comparable<Enum<T>> {
 @JsName("name$") private var _name: String = ""
 @JsName("ordinal$") private var _ordinal: Int = 0
 val name: String
 get() = _name
 val ordinal:
 Int
 get() = _ordinal
 override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)
 override fun equals(other: Any?) = this === other
 override fun hashCode(): Int =
 js("Kotlin.identityHashCode")(this)
 override fun toString() = name
 companion object {
 null,
 }
}

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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("ArraysKt")
package
kotlin.collections
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*
import

```

`kotlin.ranges.contains`\nimport `kotlin.ranges.reversed`\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component1(): Double {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n return get(0)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n return get(0)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n return

`get(1)`\n\n\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean` {\n return `get(1)`\n}\n\n\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char` {\n return `get(1)`\n}\n\n\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T` {\n return `get(2)`\n}\n\n\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte` {\n return `get(2)`\n}\n\n\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short` {\n return `get(2)`\n}\n\n\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int` {\n return `get(2)`\n}\n\n\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long` {\n return `get(2)`\n}\n\n\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float` {\n return `get(2)`\n}\n\n\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double` {\n return `get(2)`\n}\n\n\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean` {\n return `get(2)`\n}\n\n\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char` {\n return `get(2)`\n}\n\n\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T` {\n return `get(3)`\n}\n\n\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte` {\n return `get(3)`\n}\n\n\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component4(): Short` {\n return `get(3)`\n}\n\n\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int` {\n return `get(3)`\n}\n\n\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n \* where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long` {\n return

```

get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n return
get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5(): Float {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean {\n return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char {\n return
get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\npublic operator fun
<@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {\n return indexOf(element)
>= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\npublic operator fun
ByteArray.contains(element: Byte): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if
[element] is found in the array.\n *\npublic operator fun ShortArray.contains(element: Short): Boolean {\n return
indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\npublic operator fun
IntArray.contains(element: Int): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if
[element] is found in the array.\n *\npublic operator fun LongArray.contains(element: Long): Boolean {\n return
indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\n@Deprecated("The

```

function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior as in a list.', ReplaceWith("any { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@Suppress("DEPRECATION")\npublic operator fun FloatArray.contains(element: Float): Boolean {\n return indexOf(element) >= 0\n}\n\n/\*\*\n \* Returns `true` if [element] is found in the array.\n \*\n \*/\n@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior as in a list.", ReplaceWith("any { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\n@Suppress("DEPRECATION")\npublic operator fun DoubleArray.contains(element: Double): Boolean {\n return indexOf(element) >= 0\n}\n\n/\*\*\n \* Returns `true` if [element] is found in the array.\n \*\n \*/\npublic operator fun BooleanArray.contains(element: Boolean): Boolean {\n return indexOf(element) >= 0\n}\n\n/\*\*\n \* Returns `true` if [element] is found in the array.\n \*\n \*/\npublic operator fun CharArray.contains(element: Char): Boolean {\n return indexOf(element) >= 0\n}\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun <T> Array<out T>.elementAt(index: Int): T\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun ByteArray.elementAt(index: Int): Byte\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun ShortArray.elementAt(index: Int): Short\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun IntArray.elementAt(index: Int): Int\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun FloatArray.elementAt(index: Int): Float\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun DoubleArray.elementAt(index: Int): Double\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun BooleanArray.elementAt(index: Int): Boolean\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAt\n\npublic expect fun CharArray.elementAt(index: Int): Char\n\n/\*\*\n \* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAtOrElse\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/\*\*\n \* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAtOrElse\n\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/\*\*\n \* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n \*\n \*/\n@sample samples.collections.Collections.Elements.elementAtOrElse\n\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/\*\*\n \* Returns an element at the given [index] or the result of



calling the [defaultValue] function if the [index] is out of bounds of this array.\n \* \n \* @sample

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samples.collections.Collections.Elements.elementAtOrElse\n *^n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.elementAtOrNull(index: Int): T? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.elementAtOrNull(index: Int): Byte? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.elementAtOrNull(index: Int): Short? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrNull(index: Int): Int? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrNull(index: Int): Long? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrNull(index: Int): Float? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrNull(index: Int): Double? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrNull(index: Int): Boolean? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an

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element at the given [index] or `null` if the [index] is out of bounds of this array.\n \* \n \* @sample

`samples.collections.Collections.Elements.elementAtOrNull`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`CharArray.elementAtOrNull(index: Int): Char?` {\n return this.getOrNull(index)\n}\n\n/\*\*\n \* Returns the first  
element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun <T> Array<out  
T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/\*\*\n \* Returns the first element  
matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`ByteArray.find(predicate: (Byte) -> Boolean): Byte?` {\n return firstOrNull(predicate)\n}\n\n/\*\*\n \* Returns the  
first element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`ShortArray.find(predicate: (Short) -> Boolean): Short?` {\n return firstOrNull(predicate)\n}\n\n/\*\*\n \* Returns the  
first element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`IntArray.find(predicate: (Int) -> Boolean): Int?` {\n return firstOrNull(predicate)\n}\n\n/\*\*\n \* Returns the first  
element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`LongArray.find(predicate: (Long) -> Boolean): Long?` {\n return firstOrNull(predicate)\n}\n\n/\*\*\n \* Returns the  
first element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`FloatArray.find(predicate: (Float) -> Boolean): Float?` {\n return firstOrNull(predicate)\n}\n\n/\*\*\n \* Returns the  
first element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`DoubleArray.find(predicate: (Double) -> Boolean): Double?` {\n return firstOrNull(predicate)\n}\n\n/\*\*\n \*  
Returns the first element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean?` {\n return firstOrNull(predicate)\n}\n\n/\*\*\n \*  
Returns the first element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`CharArray.find(predicate: (Char) -> Boolean): Char?` {\n return firstOrNull(predicate)\n}\n\n/\*\*\n \* Returns the  
last element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun <T> Array<out  
T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/\*\*\n \* Returns the last element  
matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`ByteArray.findLast(predicate: (Byte) -> Boolean): Byte?` {\n return lastOrNull(predicate)\n}\n\n/\*\*\n \* Returns  
the last element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`ShortArray.findLast(predicate: (Short) -> Boolean): Short?` {\n return lastOrNull(predicate)\n}\n\n/\*\*\n \* Returns  
the last element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`IntArray.findLast(predicate: (Int) -> Boolean): Int?` {\n return lastOrNull(predicate)\n}\n\n/\*\*\n \* Returns the last  
element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`LongArray.findLast(predicate: (Long) -> Boolean): Long?` {\n return lastOrNull(predicate)\n}\n\n/\*\*\n \* Returns  
the last element matching the given [predicate], or `null` if no such element was found.\n \* \n \* @sample

`samples.collections.Collections.Elements.find`\n \* \n @kotlin.internal.InlineOnly\n public inline fun  
`FloatArray.findLast(predicate: (Float) -> Boolean): Float?` {\n return lastOrNull(predicate)\n}\n\n/\*\*\n \* Returns

the last element matching the given [predicate], or `null` if no such element was found.

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 @sample
 samples.collections.Collections.Elements.find
 *^/\n@kotlin.internal.InlineOnly\npublic inline fun
 DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {\n return lastOrNull(predicate)\n}\n\n/**\n *
 Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
 samples.collections.Collections.Elements.find
 *^/\n@kotlin.internal.InlineOnly\npublic inline fun
 BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {\n return lastOrNull(predicate)\n}\n\n/**\n *
 Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
 samples.collections.Collections.Elements.find
 *^/\n@kotlin.internal.InlineOnly\npublic inline fun
 CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns
 first element.\n * @throws [NoSuchElementException] if the array is empty.\n *^/\npublic fun <T> Array<out
 T>.first(): T {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
 this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
 *^/\npublic fun ByteArray.first(): Byte {\n if (isEmpty())\n throw NoSuchElementException("Array is
 empty.")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
 array is empty.\n *^/\npublic fun ShortArray.first(): Short {\n if (isEmpty())\n throw
 NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws
 [NoSuchElementException] if the array is empty.\n *^/\npublic fun IntArray.first(): Int {\n if (isEmpty())\n
 throw NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns first element.\n *
 @throws [NoSuchElementException] if the array is empty.\n *^/\npublic fun LongArray.first(): Long {\n if
 (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns first
 element.\n * @throws [NoSuchElementException] if the array is empty.\n *^/\npublic fun FloatArray.first(): Float
 {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n *
 Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n *^/\npublic fun
 DoubleArray.first(): Double {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n
 return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
 *^/\npublic fun BooleanArray.first(): Boolean {\n if (isEmpty())\n throw NoSuchElementException("Array is
 empty.")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
 array is empty.\n *^/\npublic fun CharArray.first(): Char {\n if (isEmpty())\n throw
 NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns the first element matching
 the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *^/\npublic inline fun
 <T> Array<out T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return
 element\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
 Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
 element is found.\n *^/\npublic inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n for (element
 in this) if (predicate(element)) return element\n throw NoSuchElementException("Array contains no element
 matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
 [NoSuchElementException] if no such element is found.\n *^/\npublic inline fun ShortArray.first(predicate: (Short) -
 > Boolean): Short {\n for (element in this) if (predicate(element)) return element\n throw
 NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
 element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
 *^/\npublic inline fun IntArray.first(predicate: (Int) -> Boolean): Int {\n for (element in this) if (predicate(element))
 return element\n throw NoSuchElementException("Array contains no element matching the
 predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
 [NoSuchElementException] if no such element is found.\n *^/\npublic inline fun LongArray.first(predicate: (Long) -
 > Boolean): Long {\n for (element in this) if (predicate(element)) return element\n throw
 NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
 element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
 *^/\npublic inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {\n for (element in this) if

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(predicate(element)) return element\n throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.first(predicate:
(Double) -> Boolean): Double {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if
(predicate(element)) return element\n throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.first(predicate: (Char) ->
Boolean): Char {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.firstOrNull(): T? {\n return if
(isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun
ByteArray.firstOrNull(): Byte? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or
`null` if the array is empty.\n */\npublic fun ShortArray.firstOrNull(): Short? {\n return if (isEmpty()) null else
this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun IntArray.firstOrNull():
Int? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is
empty.\n */\npublic fun LongArray.firstOrNull(): Long? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n *
Returns the first element, or `null` if the array is empty.\n */\npublic fun FloatArray.firstOrNull(): Float? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*/\npublic fun DoubleArray.firstOrNull(): Double? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns
the first element, or `null` if the array is empty.\n */\npublic fun BooleanArray.firstOrNull(): Boolean? {\n return
if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun
CharArray.firstOrNull(): Char? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Array<out
T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in this) if (predicate(element)) return element\n
return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not
found.\n */\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) -> Boolean): Byte? {\n for (element in this)
if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n */\npublic inline fun ShortArray.firstOrNull(predicate: (Short) ->
Boolean): Short? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {\n for (element in this) if (predicate(element)) return
element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element
was not found.\n */\npublic inline fun LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n for
(element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? {\n for (element in this) if (predicate(element))
return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\npublic inline fun DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double?
{\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n for (element in this) if
(predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n */\npublic inline fun CharArray.firstOrNull(predicate: (Char) ->
Boolean): Char? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of

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bounds of this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrElse(index: Int,
defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*^@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short):
Short {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) ->
Int): Int {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun LongArray.getOrElse(index: Int,
defaultValue: (Int) -> Long): Long {\n return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*^@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) ->
Double): Double {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n
* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.getOrElse(index: Int,
defaultValue: (Int) -> Boolean): Boolean {\n return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun
CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n
*^@public fun <T> Array<out T>.getOrNull(index: Int): T? {\n return if (index >= 0 && index <= lastIndex)
get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n *^@public fun
ByteArray.getOrNull(index: Int): Byte? {\n return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n
* @sample samples.collections.Collections.Elements.getOrNull\n *^@public fun ShortArray.getOrNull(index: Int):
Short? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n *^@public fun IntArray.getOrNull(index: Int): Int? {\n
 return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n *^@public fun LongArray.getOrNull(index: Int): Long? {\n
 return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n *^@public fun FloatArray.getOrNull(index: Int): Float? {\n
 return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n *^@public fun DoubleArray.getOrNull(index: Int): Double?

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{\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun BooleanArray.getOrNull(index: Int): Boolean?
{\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun CharArray.getOrNull(index: Int): Char? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -
1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out
T>.indexOf(element: T): Int {\n if (element == null) {\n for (index in indices) {\n if (this[index] ==
null) {\n return index\n }\n }\n } else {\n for (index in indices) {\n if (element ==
this[index]) {\n return index\n }\n }\n }\n return -1\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.indexOf(element: Byte): Int {\n
for (index in indices) {\n if (element == this[index]) {\n return index\n }\n}\n return -
1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun
ShortArray.indexOf(element: Short): Int {\n for (index in indices) {\n if (element == this[index]) {\n
return index\n }\n}\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\npublic fun IntArray.indexOf(element: Int): Int {\n for (index in indices) {\n if (element
== this[index]) {\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns first index of [element], or -
1 if the array does not contain element.\n */\npublic fun LongArray.indexOf(element: Long): Int {\n for (index in
indices) {\n if (element == this[index]) {\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n */\n@Deprecated("\The function has unclear
behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }'
instead to continue using this behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a
list.", ReplaceWith("\indexOfFirst { it == element }"))\n@DeprecatedSinceKotlin(warningSince = `1.4`)\npublic
fun FloatArray.indexOf(element: Float): Int {\n for (index in indices) {\n if (element == this[index]) {\n
return index\n }\n}\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\n@Deprecated("\The function has unclear behavior when searching for NaN or zero values
and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or
'.asList().indexOf(element: T)' to get the same search behavior as in a list.", ReplaceWith("\indexOfFirst { it ==
element }"))\n@DeprecatedSinceKotlin(warningSince = `1.4`)\npublic fun DoubleArray.indexOf(element:
Double): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n}\n
return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic
fun BooleanArray.indexOf(element: Boolean): Int {\n for (index in indices) {\n if (element == this[index]) {\n
return index\n }\n}\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\npublic fun CharArray.indexOf(element: Char): Int {\n for (index in indices) {\n if
(element == this[index]) {\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T>
Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index]))
{\n return index\n }\n}\n return -1\n}\n\n/**\n * Returns index of the first element matching the

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given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n for (index in indices) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T>
Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last element.\n */
\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun <T> Array<out T>.last(): T {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last
element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun ByteArray.last(): Byte {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last

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element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun ShortArray.last(): Short {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun IntArray.last(): Int {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun LongArray.last(): Long {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun FloatArray.last(): Float {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun DoubleArray.last(): Double {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun BooleanArray.last(): Boolean {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun CharArray.last(): Char {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun ShortArray.last(predicate: (Short) -> Boolean): Short {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun LongArray.last(predicate: (Long) -> Boolean): Long {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun FloatArray.last(predicate: (Float) -> Boolean):

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Float {
 fun for (index in this.indices.reversed()) {
 val element = this[index]
 if (predicate(element))
 return element
 }
 throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 * @sample
 * samples.collections.Collections.Elements.last
 */
public inline fun DoubleArray.last(predicate: (Double) -> Boolean): Double {
 fun for (index in this.indices.reversed()) {
 val element = this[index]
 if (predicate(element))
 return element
 }
 throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 * @sample
 * samples.collections.Collections.Elements.last
 */
public inline fun BooleanArray.last(predicate: (Boolean) -> Boolean): Boolean {
 fun for (index in this.indices.reversed()) {
 val element = this[index]
 if (predicate(element))
 return element
 }
 throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the last element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 * @sample
 * samples.collections.Collections.Elements.last
 */
public inline fun CharArray.last(predicate: (Char) -> Boolean): Char {
 fun for (index in this.indices.reversed()) {
 val element = this[index]
 if (predicate(element))
 return element
 }
 throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {
 if (element == null) {
 for (index in indices.reversed()) {
 if (this[index] == null)
 return index
 }
 } else {
 for (index in indices.reversed()) {
 if (element == this[index])
 return index
 }
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun ByteArray.lastIndexOf(element: Byte): Int {
 for (index in indices.reversed()) {
 if (element == this[index])
 return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun ShortArray.lastIndexOf(element: Short): Int {
 for (index in indices.reversed()) {
 if (element == this[index])
 return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun IntArray.lastIndexOf(element: Int): Int {
 for (index in indices.reversed()) {
 if (element == this[index])
 return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun LongArray.lastIndexOf(element: Long): Int {
 for (index in indices.reversed()) {
 if (element == this[index])
 return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 * @Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }' instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a list.")
 */
public fun FloatArray.lastIndexOf(element: Float): Int {
 for (index in indices.reversed()) {
 if (element == this[index])
 return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 * @Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }' instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a list.")
 */
public fun DoubleArray.lastIndexOf(element: Double): Int {
 for (index in indices.reversed()) {
 if (element == this[index])
 return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun BooleanArray.lastIndexOf(element: Boolean): Int {
 for (index in indices.reversed()) {
 if (element == this[index])
 return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun CharArray.lastIndexOf(element: Char): Int {
 for (index in indices.reversed()) {
 if (element == this[index])
 return index
 }
 return -1
}

/**
 * Returns the last element, or `null` if the array is
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empty.\n * \n * @sample samples.collections.Collections.Elements.last\n *^\npublic fun <T> Array<out
T>.lastOrNull(): T? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null`
if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n *^\npublic fun
ByteArray.lastOrNull(): Byte? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n *^\npublic
fun ShortArray.lastOrNull(): Short? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n *^\npublic
fun IntArray.lastOrNull(): Int? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n *^\npublic
fun LongArray.lastOrNull(): Long? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n *^\npublic
fun FloatArray.lastOrNull(): Float? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n *^\npublic
fun DoubleArray.lastOrNull(): Double? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the
last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*^\npublic fun BooleanArray.lastOrNull(): Boolean? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n
* Returns the last element, or `null` if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic fun CharArray.lastOrNull(): Char? {\n return if
(isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if
no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n *^\npublic inline fun
<T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T? {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun ByteArray.lastOrNull(predicate: (Byte) ->
Boolean): Byte? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun ShortArray.lastOrNull(predicate: (Short) ->
Boolean): Short? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun IntArray.lastOrNull(predicate: (Int) ->
Boolean): Int? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun LongArray.lastOrNull(predicate: (Long) ->
Boolean): Long? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun FloatArray.lastOrNull(predicate: (Float) ->
Boolean): Float? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) ->
Boolean): Double? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean)

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-> Boolean): Boolean? {
 for (index in this.indices.reversed()) {
 val element = this[index]
 if (predicate(element)) return element
 }
 return null
}

Returns the last element matching the given [predicate], or `null` if no such element was found.

@sample
samples.collections.Collections.Elements.lastOrNull(predicate: (Char) -> Boolean): Char? {
 for (index in this.indices.reversed()) {
 val element = this[index]
 if (predicate(element)) return element
 }
 return null
}

Returns a random element from this array.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.random(): T {
 return random(Random)
}

Returns a random element from this array.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun ByteArray.random(): Byte {
 return random(Random)
}

Returns a random element from this array.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun ShortArray.random(): Short {
 return random(Random)
}

Returns a random element from this array.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun IntArray.random(): Int {
 return random(Random)
}

Returns a random element from this array.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun LongArray.random(): Long {
 return random(Random)
}

Returns a random element from this array.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun FloatArray.random(): Float {
 return random(Random)
}

Returns a random element from this array.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun DoubleArray.random(): Double {
 return random(Random)
}

Returns a random element from this array.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun BooleanArray.random(): Boolean {
 return random(Random)
}

Returns a random element from this array.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun CharArray.random(): Char {
 return random(Random)
}

Returns a random element from this array using the specified source of randomness.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
public fun <T> Array<out T>.random(random: Random): T {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

Returns a random element from this array using the specified source of randomness.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
public fun ByteArray.random(random: Random): Byte {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

Returns a random element from this array using the specified source of randomness.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
public fun ShortArray.random(random: Random): Short {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

Returns a random element from this array using the specified source of randomness.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
public fun IntArray.random(random: Random): Int {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

Returns a random element from this array using the specified source of randomness.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
public fun LongArray.random(random: Random): Long {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return get(random.nextInt(size))
}

Returns a random element from this array using the specified source of randomness.

@throws NoSuchElementException if this array is empty.

@SinceKotlin("1.3")
public fun FloatArray.random(random: Random): Float {
 if

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(isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun DoubleArray.random(random: Random): Double {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun BooleanArray.random(random: Random): Boolean {\n
 if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun CharArray.random(random: Random): Char {\n if (isEmpty())\n throw NoSuchElementException("Array
is empty.")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if
this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <T> Array<out T>.randomOrNull(): T? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ByteArray.randomOrNull(): Byte? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ShortArray.randomOrNull(): Short? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun IntArray.randomOrNull(): Int? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun LongArray.randomOrNull(): Long? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun FloatArray.randomOrNull(): Float? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun DoubleArray.randomOrNull(): Double? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun BooleanArray.randomOrNull(): Boolean? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun CharArray.randomOrNull(): Char? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> Array<out
T>.randomOrNull(random: Random): T? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n */\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
ByteArray.randomOrNull(random: Random): Byte? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n */\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
ShortArray.randomOrNull(random: Random): Short? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
IntArray.randomOrNull(random: Random): Int? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
LongArray.randomOrNull(random: Random): Long? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
FloatArray.randomOrNull(random: Random): Float? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
DoubleArray.randomOrNull(random: Random): Double? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
BooleanArray.randomOrNull(random: Random): Boolean? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharArray.randomOrNull(random: Random): Char? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or
has more than one element.\n */\npublic fun <T> Array<out T>.single(): T {\n return when (size) {\n 0 ->
throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n */\npublic fun ByteArray.single(): Byte
{\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n
else -> throw IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun
ShortArray.single(): Short {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is
empty.")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Array has more than one element.")\n
}\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one
element.\n */\npublic fun IntArray.single(): Int {\n return when (size) {\n 0 -> throw
NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n */\npublic fun LongArray.single(): Long
{\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n
else -> throw IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun
FloatArray.single(): Float {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is
empty.")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Array has more than one element.")\n
}\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one
element.\n */\npublic fun DoubleArray.single(): Double {\n return when (size) {\n 0 -> throw

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NoSuchElementException("Array is empty.\")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.\")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n */\npublic fun BooleanArray.single():
Boolean {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.\")\n 1 ->
this[0]\n else -> throw IllegalArgumentException("Array has more than one element.\")\n }\n}\n\n/**\n *
Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic
fun CharArray.single(): Char {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is
empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Array has more than one element.\")\n
 }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or
more than one matching element.\n */\npublic inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {\n
 var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if
(found) throw IllegalArgumentException("Array contains more than one matching element.\")\n single =
element\n found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.\")\n @Suppress("UNCHECKED_CAST")\n return single as T\n}\n\n/**\n * Returns
the single element matching the given [predicate], or throws exception if there is no or more than one
matching element.\n */\npublic inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {\n var single:
Byte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw
IllegalArgumentException("Array contains more than one matching element.\")\n single = element\n
found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.\")\n @Suppress("UNCHECKED_CAST")\n return single as Byte\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {\n var single: Short? =
null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw
IllegalArgumentException("Array contains more than one matching element.\")\n single = element\n
found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.\")\n @Suppress("UNCHECKED_CAST")\n return single as Short\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun IntArray.single(predicate: (Int) -> Boolean): Int {\n var single: Int? = null\n var
found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw
IllegalArgumentException("Array contains more than one matching element.\")\n single = element\n
found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.\")\n @Suppress("UNCHECKED_CAST")\n return single as Int\n}\n\n/**\n * Returns the single
element matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*/\npublic inline fun LongArray.single(predicate: (Long) -> Boolean): Long {\n var single: Long? = null\n var
found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw
IllegalArgumentException("Array contains more than one matching element.\")\n single = element\n
found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.\")\n @Suppress("UNCHECKED_CAST")\n return single as Long\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {\n var single: Float? =
null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw
IllegalArgumentException("Array contains more than one matching element.\")\n single = element\n
found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.\")\n @Suppress("UNCHECKED_CAST")\n return single as Float\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n var single:
Double? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found)
throw IllegalArgumentException("Array contains more than one matching element.\")\n single = element\n
}

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 found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no element
matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return single as Double\n}\n\n/**\n *
Returns the single element matching the given [predicate], or throws exception if there is no or more than one
matching element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n var
single: Boolean? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if
(found) throw IllegalArgumentException("Array contains more than one matching element.")\n single =
element\n found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return single as
Boolean\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no
or more than one matching element.\n */\npublic inline fun CharArray.single(predicate: (Char) -> Boolean): Char
{\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n
 if (found) throw IllegalArgumentException("Array contains more than one matching element.")\n single =
element\n found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no
element matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return single as Char\n}\n\n/**\n * Returns
single element, or `null` if the array is empty or has more than one element.\n */\npublic fun <T>
Array<out T>.singleOrNull(): T? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or
`null` if the array is empty or has more than one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n
 return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has
more than one element.\n */\npublic fun ShortArray.singleOrNull(): Short? {\n return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun IntArray.singleOrNull(): Int? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element,
or `null` if the array is empty or has more than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n
 return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has
more than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun DoubleArray.singleOrNull(): Double? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull():
Boolean? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is
empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n return if (size == 1)
this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -
> Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if
(predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n
 }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\npublic inline fun
ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n var single: Byte? = null\n var found = false\n
for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n
 found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single
element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic
inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n var single: Short? = null\n var
found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n
 single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n var single: Int? = null\n
var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n
 single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n *
Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n var

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single: Long? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if
(found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return
single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or
more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean):
Float? {\n var single: Float? = null\n var found = false\n for (element in this) {\n if (predicate(element))
{\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return
null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element
was not found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate:
(Double) -> Boolean): Double? {\n var single: Double? = null\n var found = false\n for (element in this) {\n
if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n}\n if (!found)
return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if
element was not found or more than one element was found.\n */\npublic inline fun BooleanArray.singleOrNull(predicate:
(Boolean) -> Boolean): Boolean? {\n var single: Boolean? = null\n var
found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single
= element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n var single: Char?
= null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return
null\n single = element\n found = true\n }\n }\n if (!found) return null\n return
single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.drop(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.drop(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.drop(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws

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IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun BooleanArray.drop(n: Int): List<Boolean>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.drop(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun <T> Array<out T>.dropLast(n: Int): List<T>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun IntArray.dropLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun LongArray.dropLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun DoubleArray.dropLast(n: Int): List<Double>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun BooleanArray.dropLast(n: Int):
List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.dropLast(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T>
Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if
(!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns
a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample

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samples.collections.Collections.Transformations.drop\n *\npublic inline fun ByteArray.dropLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ShortArray.dropLastWhile(predicate:
(Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun IntArray.dropLastWhile(predicate:
(Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun FloatArray.dropLastWhile(predicate:
(Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropLastWhile(predicate:
(Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n } \n } \n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n return take(index + 1)\n } \n } \n return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T> Array<out
T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for
(item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n
yielding = true\n } \n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n var yielding = false\n val list =
ArrayList<Byte>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n
list.add(item)\n yielding = true\n } \n return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ShortArray.dropWhile(predicate:
(Short) -> Boolean): List<Short> {\n var yielding = false\n val list = ArrayList<Short>()\n for (item in this)\n
if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding =
true\n } \n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the
given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {\n var yielding = false\n val list =
ArrayList<Int>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n

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list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements
except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun LongArray.dropWhile(predicate:
(Long) -> Boolean): List<Long> {\n var yielding = false\n val list = ArrayList<Long>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding =
true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n var yielding = false\n val list =
ArrayList<Float>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item))
{\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropWhile(predicate:
(Double) -> Boolean): List<Double> {\n var yielding = false\n val list = ArrayList<Double>()\n for (item in
this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n
yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic
inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n var yielding = false\n
val list = ArrayList<Boolean>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if
(!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun CharArray.dropWhile(predicate:
(Char) -> Boolean): List<Char> {\n var yielding = false\n val list = ArrayList<Char>()\n for (item in this)\n
 if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n
yielding =
true\n }\n return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n *
@sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun <T> Array<out
T>.filter(predicate: (T) -> Boolean): List<T> {\n return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns
a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean):
List<Byte> {\n return filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline
fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n return filterTo(ArrayList<Short>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean):
List<Int> {\n return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline
fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n return filterTo(ArrayList<Long>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun FloatArray.filter(predicate: (Float) ->
Boolean): List<Float> {\n return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n return
filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun
BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n return filterTo(ArrayList<Boolean>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun CharArray.filter(predicate: (Char) ->
Boolean): List<Char> {\n return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element

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and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n \* @sample  
samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun <T> Array<out  
T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(),  
predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param  
[predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate  
evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic  
inline fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n return  
filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the  
given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and  
returns the result of predicate evaluation on the element.\n \* \n \* @sample  
samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun ShortArray.filterIndexed(predicate:  
(index: Int, Short) -> Boolean): List<Short> {\n return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/\*\*\n  
\* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes  
the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n  
\* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun  
IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n return  
filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the  
given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and  
returns the result of predicate evaluation on the element.\n \* \n \* @sample  
samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun LongArray.filterIndexed(predicate:  
(index: Int, Long) -> Boolean): List<Long> {\n return filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/\*\*\n  
\* Returns a list containing only elements matching the given [predicate].\n \* @param [predicate] function that takes  
the index of an element and the element itself\n \* and returns the result of predicate evaluation on the element.\n \* \n  
\* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun  
FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {\n return  
filterIndexedTo(ArrayList<Float>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the  
given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \* and  
returns the result of predicate evaluation on the element.\n \* \n \* @sample  
samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun DoubleArray.filterIndexed(predicate:  
(index: Int, Double) -> Boolean): List<Double> {\n return filterIndexedTo(ArrayList<Double>(),  
predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching the given [predicate].\n \* @param  
[predicate] function that takes the index of an element and the element itself\n \* and returns the result of predicate  
evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic  
inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n return  
filterIndexedTo(ArrayList<Boolean>(), predicate)\n}\n\n/\*\*\n \* Returns a list containing only elements matching  
the given [predicate].\n \* @param [predicate] function that takes the index of an element and the element itself\n \*  
and returns the result of predicate evaluation on the element.\n \* \n \* @sample  
samples.collections.Collections.Filtering.filterIndexed\n \*/\npublic inline fun CharArray.filterIndexed(predicate:  
(index: Int, Char) -> Boolean): List<Char> {\n return filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/\*\*\n  
\* Appends all elements matching the given [predicate] to the given [destination].\n \* @param [predicate] function that  
takes the index of an element and the element itself\n \* and returns the result of predicate evaluation on the  
element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexedTo\n \*/\npublic inline fun <T, C :  
MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C  
{\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n  
return destination\n}\n\n/\*\*\n \* Appends all elements matching the given [predicate] to the given [destination].\n \*  
@param [predicate] function that takes the index of an element and the element itself\n \* and returns the result of  
predicate evaluation on the element.\n \* \n \* @sample samples.collections.Collections.Filtering.filterIndexedTo\n \*/  
public inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate:

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(index: Int, Byte) -> Boolean): C { \n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\n\npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C { \n forEachIndexed {
index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterIndexedTo(destination: C, predicate: (index:
Int, Int) -> Boolean): C { \n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\n\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C { \n forEachIndexed {
index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterIndexedTo(destination: C, predicate:
(index: Int, Float) -> Boolean): C { \n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\n\npublic inline fun <C : MutableCollection<in
Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C { \n
forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n\npublic inline fun <C : MutableCollection<in
Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate:
(index: Int, Boolean) -> Boolean): C { \n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\n\npublic inline fun <C : MutableCollection<in
Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C { \n forEachIndexed {
index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return
destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n *
\n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */\n\npublic inline fun <reified R>
Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> { \n return
filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type
parameter R to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\n */\n\npublic inline fun <reified R, C :
MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C { \n for (element in this) if (element is
R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing all elements not matching

```

```

the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun <T>
Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n return filterNotTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun ByteArray.filterNot(predicate: (Byte) ->
Boolean): List<Byte> {\n return filterNotTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing
all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\n return
filterNotTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the
given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun
IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\n return filterNotTo(ArrayList<Int>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun LongArray.filterNot(predicate: (Long) ->
Boolean): List<Long> {\n return filterNotTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun FloatArray.filterNot(predicate: (Float) ->
Boolean): List<Float> {\n return filterNotTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun DoubleArray.filterNot(predicate: (Double) ->
Boolean): List<Double> {\n return filterNotTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun BooleanArray.filterNot(predicate: (Boolean) -
> Boolean): List<Boolean> {\n return filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun CharArray.filterNot(predicate: (Char) ->
Boolean): List<Char> {\n return filterNotTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing
all elements that are not `null`.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n *\npublic
inline fun <T : Any> Array<out T?>.filterNotNull(): List<T> {\n return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n *
Appends all elements that are not `null` to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNullTo\n *\npublic inline fun <C : MutableCollection<in T>, T : Any>
Array<out T?>.filterNotNullTo(destination: C): C {\n for (element in this) if (element != null)
destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given
[predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) ->
Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return
destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in
Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Long>>

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LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {
 for (element in this) if (!predicate(element)) destination.add(element)
}
return destination
}
Append all elements not matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Float>>
FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {
 for (element in this) if (!predicate(element)) destination.add(element)
}
return destination
}
Append all elements not matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Double>>
DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {
 for (element in this) if (!predicate(element)) destination.add(element)
}
return destination
}
Append all elements not matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Boolean>>
BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {
 for (element in this) if (!predicate(element)) destination.add(element)
}
return destination
}
Append all elements not matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Char>>
CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
 for (element in this) if (!predicate(element)) destination.add(element)
}
return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) -> Boolean): C {
 for (element in this) if (predicate(element)) destination.add(element)
}
return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {
 for (element in this) if (predicate(element)) destination.add(element)
}
return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {
 for (element in this) if (predicate(element)) destination.add(element)
}
return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {
 for (element in this) if (predicate(element)) destination.add(element)
}
return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {
 for (element in this) if (predicate(element)) destination.add(element)
}
return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Float>>
FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {
 for (element in this) if (predicate(element)) destination.add(element)
}
return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Double>>
DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {
 for (element in this) if (predicate(element)) destination.add(element)
}
return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Boolean>>
BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {
 for (element in this) if (predicate(element)) destination.add(element)
}
return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Char>>
CharArray.filterTo(destination: C, predicate: (Char) ->

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Boolean): C { \n for (element in this) if (predicate(element)) destination.add(element)\n return
destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun <T> Array<out T>.slice(indices: IntRange): List<T> { \n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n */\npublic fun ByteArray.slice(indices: IntRange): List<Byte> { \n if
(indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun ShortArray.slice(indices: IntRange): List<Short> { \n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n */\npublic fun IntArray.slice(indices: IntRange): List<Int> { \n if
(indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun LongArray.slice(indices: IntRange): List<Long> { \n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n */\npublic fun FloatArray.slice(indices: IntRange): List<Float> { \n if
(indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun DoubleArray.slice(indices: IntRange): List<Double> { \n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n */\npublic fun BooleanArray.slice(indices: IntRange): List<Boolean> { \n
if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun CharArray.slice(indices: IntRange): List<Char> { \n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n */\npublic fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T> { \n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<T>(size)\n for
(index in indices) { \n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n */\npublic fun ByteArray.slice(indices: Iterable<Int>): List<Byte> { \n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Byte>(size)\n for
(index in indices) { \n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n */\npublic fun ShortArray.slice(indices: Iterable<Int>): List<Short> { \n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Short>(size)\n
for (index in indices) { \n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun IntArray.slice(indices: Iterable<Int>): List<Int> { \n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Int>(size)\n for
(index in indices) { \n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n */\npublic fun LongArray.slice(indices: Iterable<Int>): List<Long> { \n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Long>(size)\n
for (index in indices) { \n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun FloatArray.slice(indices: Iterable<Int>): List<Float> { \n val size =
indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Float>(size)\n
for (index in indices) { \n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> { \n val
size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<Double>(size)\n for (index in indices) { \n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>):
List<Boolean> { \n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list
= ArrayList<Boolean>(size)\n for (index in indices) { \n list.add(get(index))\n }\n return list\n}\n\n/**\n *

```



Returns a list containing elements at specified [indices].\n \*/\npublic fun CharArray.slice(indices: Iterable<Int>): List<Char> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Char>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list}\n\n/>\n \*/\n \* Returns an array containing elements of this array at specified [indices].\n \*/\npublic fun <T> Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n val result = arrayOfNulls(this, indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result}\n\n/>\n \*/\n \* Returns an array containing elements of this array at specified [indices].\n \*/\npublic fun ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n val result = ByteArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result}\n\n/>\n \*/\n \* Returns an array containing elements of this array at specified [indices].\n \*/\npublic fun ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n val result = ShortArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result}\n\n/>\n \*/\n \* Returns an array containing elements of this array at specified [indices].\n \*/\npublic fun IntArray.sliceArray(indices: Collection<Int>): IntArray {\n val result = IntArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result}\n\n/>\n \*/\n \* Returns an array containing elements of this array at specified [indices].\n \*/\npublic fun LongArray.sliceArray(indices: Collection<Int>): LongArray {\n val result = LongArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result}\n\n/>\n \*/\n \* Returns an array containing elements of this array at specified [indices].\n \*/\npublic fun FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n val result = FloatArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result}\n\n/>\n \*/\n \* Returns an array containing elements of this array at specified [indices].\n \*/\npublic fun DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n val result = DoubleArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result}\n\n/>\n \*/\n \* Returns an array containing elements of this array at specified [indices].\n \*/\npublic fun BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n val result = BooleanArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result}\n\n/>\n \*/\n \* Returns an array containing elements of this array at specified [indices].\n \*/\npublic fun CharArray.sliceArray(indices: Collection<Int>): CharArray {\n val result = CharArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result}\n\n/>\n \*/\n \* Returns an array containing elements at indices in the specified [indices] range.\n \*/\npublic fun <T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n if (indices.isEmpty()) return copyOfRange(0, 0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/>\n \*/\n \* Returns an array containing elements at indices in the specified [indices] range.\n \*/\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n if (indices.isEmpty()) return ByteArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/>\n \*/\n \* Returns an array containing elements at indices in the specified [indices] range.\n \*/\npublic fun ShortArray.sliceArray(indices: IntRange): ShortArray {\n if (indices.isEmpty()) return ShortArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/>\n \*/\n \* Returns an array containing elements at indices in the specified [indices] range.\n \*/\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n if (indices.isEmpty()) return IntArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/>\n \*/\n \* Returns an array containing elements at indices in the specified [indices] range.\n \*/\npublic fun LongArray.sliceArray(indices: IntRange): LongArray {\n if (indices.isEmpty()) return LongArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/>\n \*/\n \* Returns an array containing elements at indices in the specified [indices] range.\n \*/\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n if (indices.isEmpty()) return FloatArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/>\n \*/\n \* Returns an array containing elements at indices in the specified [indices] range.\n \*/\npublic fun DoubleArray.sliceArray(indices: IntRange): DoubleArray {\n if (indices.isEmpty()) return DoubleArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/>\n \*/\n \* Returns an array containing elements at

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indices in the specified [indices] range.\n *\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray
{\n if (indices.isEmpty()) return BooleanArray(0)\n return copyOfRange(indices.start, indices.endInclusive +
1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n *\npublic fun
CharArray.sliceArray(indices: IntRange): CharArray {\n if (indices.isEmpty()) return CharArray(0)\n return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<T>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun ByteArray.take(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Byte>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun ShortArray.take(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Short>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun IntArray.take(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Int>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun LongArray.take(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Long>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun FloatArray.take(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Float>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun DoubleArray.take(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Double>(n)\n
for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n *
Returns a list containing first [n] elements.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun BooleanArray.take(n: Int):
List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list =
ArrayList<Boolean>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n
return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n *\n * @throws IllegalArgumentException if
[n] is negative.\n *\n * @sample samples.collections.Collections.Transformations.take\n *\npublic fun
CharArray.take(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if

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(n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Char>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.takeLast(n: Int): List<T>\n {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val\n size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =\n ArrayList<T>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns\n * a list containing last [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =\n size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Byte>(n)\n\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last\n * [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =\n size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Short>(n)\n\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last\n * [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.takeLast(n: Int): List<Int> {\n\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =\n size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Int>(n)\n\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last\n * [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.takeLast(n: Int): List<Long> {\n\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =\n size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Long>(n)\n\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last\n * [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.takeLast(n: Int): List<Float> {\n\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =\n size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Float>(n)\n\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last\n * [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.takeLast(n: Int): List<Double>\n {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val\n size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =\n ArrayList<Double>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.takeLast(n: Int):\n List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return\n emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list\n = ArrayList<Boolean>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws\n * IllegalArgumentException if [n] is negative.\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.takeLast(n: Int):\n List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return\n emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list\n = ArrayList<Char>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *

```

Returns a list containing last elements satisfying the given [predicate].\n \* \n \* @sample

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samples.collections.Collections.Transformations.take\n *\npublic inline fun <T> Array<out
T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if
(!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a
list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun ByteArray.takeLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
 return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun IntArray.takeLastWhile(predicate: (Int)
-> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return
drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun
LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n
 if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns
a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun FloatArray.takeLastWhile(predicate:
(Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
 return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun
BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun CharArray.takeLastWhile(predicate:
(Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
 return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n val list = ArrayList<T>()\n for
(item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun ByteArray.takeWhile(predicate: (Byte)
-> Boolean): List<Byte> {\n val list = ArrayList<Byte>()\n for (item in this) {\n if (!predicate(item))\n
 break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun
ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n val list = ArrayList<Short>()\n for (item
in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a
list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun IntArray.takeWhile(predicate: (Int) ->
Boolean): List<Int> {\n val list = ArrayList<Int>()\n for (item in this) {\n if (!predicate(item))\n
 break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun

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LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n val list = ArrayList<Long>()\n for (item\n in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a\n * list containing first elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic inline fun FloatArray.takeWhile(predicate:\n (Float) -> Boolean): List<Float> {\n val list = ArrayList<Float>()\n for (item in this) {\n if\n (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first\n * elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n val list =\n ArrayList<Double>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic inline fun BooleanArray.takeWhile(predicate:\n (Boolean) -> Boolean): List<Boolean> {\n val list = ArrayList<Boolean>()\n for (item in this) {\n if\n (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first\n * elements satisfying the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Transformations.take\n */\n\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n val list =\n ArrayList<Char>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n\npublic fun <T> Array<T>.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n\npublic fun ByteArray.reverse():\n Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n\npublic fun ShortArray.reverse():\n Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n\npublic fun IntArray.reverse():\n Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n\npublic fun LongArray.reverse():\n Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n\npublic fun FloatArray.reverse():\n Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n\npublic fun\n DoubleArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex =\n lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n\npublic fun BooleanArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var\n reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] =\n this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the\n * array in-place.\n */\n\npublic fun CharArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0)\n return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index]\n = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of\n * the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * \n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if\n * [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * \n * @throws\n * IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun <T>

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Array<T>.reverse(fromIndex: Int, toIndex: Int): Unit {
 AbstractList.checkRangeIndexes(fromIndex, toIndex,
 size)
 val midPoint = (fromIndex + toIndex) / 2
 if (fromIndex == midPoint) return
 var reverseIndex =
 toIndex - 1
 for (index in fromIndex until midPoint) {
 val tmp = this[index]
 this[index] =
 this[reverseIndex]
 this[reverseIndex] = tmp
 reverseIndex--
 }
}

/**
 * Reverses elements of the
 array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if
 [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun
ByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {
 AbstractList.checkRangeIndexes(fromIndex, toIndex,
 size)
 val midPoint = (fromIndex + toIndex) / 2
 if (fromIndex == midPoint) return
 var reverseIndex =
 toIndex - 1
 for (index in fromIndex until midPoint) {
 val tmp = this[index]
 this[index] =
 this[reverseIndex]
 this[reverseIndex] = tmp
 reverseIndex--
 }
}

/**
 * Reverses elements of the
 array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if
 [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun
ShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {
 AbstractList.checkRangeIndexes(fromIndex, toIndex,
 size)
 val midPoint = (fromIndex + toIndex) / 2
 if (fromIndex == midPoint) return
 var reverseIndex =
 toIndex - 1
 for (index in fromIndex until midPoint) {
 val tmp = this[index]
 this[index] =
 this[reverseIndex]
 this[reverseIndex] = tmp
 reverseIndex--
 }
}

/**
 * Reverses elements of the
 array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if
 [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun
IntArray.reverse(fromIndex: Int, toIndex: Int): Unit {
 AbstractList.checkRangeIndexes(fromIndex, toIndex,
 size)
 val midPoint = (fromIndex + toIndex) / 2
 if (fromIndex == midPoint) return
 var reverseIndex =
 toIndex - 1
 for (index in fromIndex until midPoint) {
 val tmp = this[index]
 this[index] =
 this[reverseIndex]
 this[reverseIndex] = tmp
 reverseIndex--
 }
}

/**
 * Reverses elements of the
 array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if
 [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun
LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {
 AbstractList.checkRangeIndexes(fromIndex, toIndex,
 size)
 val midPoint = (fromIndex + toIndex) / 2
 if (fromIndex == midPoint) return
 var reverseIndex =
 toIndex - 1
 for (index in fromIndex until midPoint) {
 val tmp = this[index]
 this[index] =
 this[reverseIndex]
 this[reverseIndex] = tmp
 reverseIndex--
 }
}

/**
 * Reverses elements of the
 array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if
 [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun
FloatArray.reverse(fromIndex: Int, toIndex: Int): Unit {
 AbstractList.checkRangeIndexes(fromIndex, toIndex,
 size)
 val midPoint = (fromIndex + toIndex) / 2
 if (fromIndex == midPoint) return
 var reverseIndex =
 toIndex - 1
 for (index in fromIndex until midPoint) {
 val tmp = this[index]
 this[index] =
 this[reverseIndex]
 this[reverseIndex] = tmp
 reverseIndex--
 }
}

/**
 * Reverses elements of the
 array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if
 [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws
 IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun

```

```

DoubleArray.reverse(fromIndex: Int, toIndex: Int): Unit {
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
 val midPoint = (fromIndex + toIndex) / 2
 if (fromIndex == midPoint) return
 var reverseIndex = toIndex - 1
 for (index in fromIndex until midPoint) {
 val tmp = this[index]
 this[index] = this[reverseIndex]
 this[reverseIndex] = tmp
 reverseIndex--
 }
}
/**
 * Reverses elements of the array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
 val midPoint = (fromIndex + toIndex) / 2
 if (fromIndex == midPoint) return
 var reverseIndex = toIndex - 1
 for (index in fromIndex until midPoint) {
 val tmp = this[index]
 this[index] = this[reverseIndex]
 this[reverseIndex] = tmp
 reverseIndex--
 }
}
/**
 * Reverses elements of the array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
 val midPoint = (fromIndex + toIndex) / 2
 if (fromIndex == midPoint) return
 var reverseIndex = toIndex - 1
 for (index in fromIndex until midPoint) {
 val tmp = this[index]
 this[index] = this[reverseIndex]
 this[reverseIndex] = tmp
 reverseIndex--
 }
}
/**
 * Returns a list with elements in reversed order.
 */
public fun <T> Array<out T>.reversed(): List<T> {
 if (isEmpty()) return emptyList()
 val list = toMutableList()
 list.reverse()
 return list
}
/**
 * Returns a list with elements in reversed order.
 */
public fun ByteArray.reversed(): List<Byte> {
 if (isEmpty()) return emptyList()
 val list = toMutableList()
 list.reverse()
 return list
}
/**
 * Returns a list with elements in reversed order.
 */
public fun ShortArray.reversed(): List<Short> {
 if (isEmpty()) return emptyList()
 val list = toMutableList()
 list.reverse()
 return list
}
/**
 * Returns a list with elements in reversed order.
 */
public fun IntArray.reversed(): List<Int> {
 if (isEmpty()) return emptyList()
 val list = toMutableList()
 list.reverse()
 return list
}
/**
 * Returns a list with elements in reversed order.
 */
public fun LongArray.reversed(): List<Long> {
 if (isEmpty()) return emptyList()
 val list = toMutableList()
 list.reverse()
 return list
}
/**
 * Returns a list with elements in reversed order.
 */
public fun FloatArray.reversed(): List<Float> {
 if (isEmpty()) return emptyList()
 val list = toMutableList()
 list.reverse()
 return list
}
/**
 * Returns a list with elements in reversed order.
 */
public fun DoubleArray.reversed(): List<Double> {
 if (isEmpty()) return emptyList()
 val list = toMutableList()
 list.reverse()
 return list
}
/**
 * Returns a list with elements in reversed order.
 */
public fun BooleanArray.reversed(): List<Boolean> {
 if (isEmpty()) return emptyList()
 val list = toMutableList()
 list.reverse()
 return list
}
/**
 * Returns a list with elements in reversed order.
 */
public fun CharArray.reversed(): List<Char> {
 if (isEmpty()) return emptyList()
 val list = toMutableList()
 list.reverse()
 return list
}
/**
 * Returns an array with elements of this array in reversed order.
 */
public fun <T> Array<T>.reversedArray(): Array<T> {
 if (isEmpty()) return this
 val result = arrayOfNulls(this, size)
 val lastIndex = lastIndexOf()
 for (i in 0..lastIndex)
 result[lastIndex - i] = this[i]
 return result
}
/**
 * Returns an array with elements of this array in reversed order.
 */
public fun ByteArray.reversedArray(): ByteArray {
 if (isEmpty()) return this
 val result = ByteArray(size)
 val lastIndex = lastIndexOf()
 for (i in 0..lastIndex)
 result[lastIndex - i] = this[i]
 return result
}
/**
 * Returns an array with elements of this array in reversed order.
 */
public fun ShortArray.reversedArray(): ShortArray {
 if (isEmpty()) return this
 val result = ShortArray(size)
 val lastIndex = lastIndexOf()
 for (i in 0..lastIndex)
 result[lastIndex - i] = this[i]
 return result
}
/**
 * Returns an array with elements of this array in reversed order.
 */
public fun IntArray.reversedArray(): IntArray {
 if (isEmpty()) return this
 val result = IntArray(size)
 val lastIndex = lastIndexOf()
 for (i in 0..lastIndex)
 result[lastIndex - i] = this[i]
}

```

```

return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
LongArray.reversedArray(): LongArray {\n if (isEmpty()) return this\n val result = LongArray(size)\n val
lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n */\npublic fun FloatArray.reversedArray():
FloatArray {\n if (isEmpty()) return this\n val result = FloatArray(size)\n val lastIndex = lastIndex\n for (i in
0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this
array in reversed order.\n */\npublic fun DoubleArray.reversedArray(): DoubleArray {\n if (isEmpty()) return
this\n val result = DoubleArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex -
i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic
fun BooleanArray.reversedArray(): BooleanArray {\n if (isEmpty()) return this\n val result =
BooleanArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n
return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun
CharArray.reversedArray(): CharArray {\n if (isEmpty()) return this\n val result = CharArray(size)\n val
lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n *
Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun <T>
Array<T>.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*/\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun
IntArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*/\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*/\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun
BooleanArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random]
instance as the source of randomness.\n */\n * See:
https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm\n
*/\n@SinceKotlin("1.4")\npublic fun <T> Array<T>.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n
 }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n */\n * See:
https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm\n
*/\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo
1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n
 }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n */\n * See:
https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm\n
*/\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo
1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n
 }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n */\n * See:
https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm\n
*/\n@SinceKotlin("1.4")\npublic fun IntArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1)
{\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n
 }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the

```



source of randomness.\n \* \n \* See:

[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
```

source of randomness.\n \* \n \* See:

[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
```

source of randomness.\n \* \n \* See:

[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
```

source of randomness.\n \* \n \* See:

[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
```

source of randomness.\n \* \n \* See:

[https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun CharArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified
```

[selector] function.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each

other after sorting.\n \* \n \* public inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortByWith(compareBy(selector))\n}\n\n/\*\*\n \* Sorts elements in the array in-place

descending according to natural sort order of the value returned by specified [selector] function.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* public inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortByDescendingWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Sorts elements in the array in-place descending according

to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* public fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {\n sortByDescendingWith(reverseOrder())\n}\n\n/\*\*\n \* Sorts elements in the array in-place descending according to their natural

sort order.\n \* \n \* public fun ByteArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/\*\*\n \* Sorts elements in the array in-place descending according to their natural sort order.\n \* \n \* public fun ShortArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/\*\*\n \* Sorts

elements in the array in-place descending according to their natural sort order.\n \* \n \* public fun

```
IntArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * public fun LongArray.sortDescending():
```

```
Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * public fun FloatArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to
```

```
their natural sort order.\n * \n * public fun DoubleArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * public fun CharArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that
```

```

equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>
Array<out T>.sorted(): List<T> {\n return sortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted
according to their natural sort order.\n */\npublic fun ByteArray.sorted(): List<Byte> {\n return
toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural
sort order.\n */\npublic fun ShortArray.sorted(): List<Short> {\n return toTypedArray().apply { sort()
}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun
IntArray.sorted(): List<Int> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all
elements sorted according to their natural sort order.\n */\npublic fun LongArray.sorted(): List<Long> {\n return
toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural
sort order.\n */\npublic fun FloatArray.sorted(): List<Float> {\n return toTypedArray().apply { sort()
}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun
DoubleArray.sorted(): List<Double> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a
list of all elements sorted according to their natural sort order.\n */\npublic fun CharArray.sorted(): List<Char> {\n
return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted
according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArray(): Array<T> {\n
if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun ByteArray.sortedArray(): ByteArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray(): IntArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun FloatArray.sortedArray(): FloatArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun DoubleArray.sortedArray(): DoubleArray {\n
if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n
if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>
Array<T>.sortedArrayDescending(): Array<T> {\n if (isEmpty()) return this\n return this.copyOf().apply {
sortWith(reverseOrder()) }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending
according to their natural sort order.\n */\npublic fun ByteArray.sortedArrayDescending(): ByteArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n */\npublic fun
ShortArray.sortedArrayDescending(): ShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply {
sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun IntArray.sortedArrayDescending(): IntArray {\n if (isEmpty()) return
this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this
array sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedArrayDescending():
LongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun
FloatArray.sortedArrayDescending(): FloatArray {\n if (isEmpty()) return this\n return this.copyOf().apply {
sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun DoubleArray.sortedArrayDescending(): DoubleArray {\n if (isEmpty())

```

return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*/\npublic fun

CharArray.sortedArrayDescending(): CharArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according the specified [comparator].\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sortWith(comparator) }\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n \* \n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*/\npublic inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n return sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending

according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {
 return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {
 return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {
 return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {
 return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {
 return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {
 return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {
 return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {
 return sortedWith(compareByDescending(selector))
}

```

\* Returns a list of all elements sorted descending according to their natural sort order.

\* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {
 return sortedWith(reverseOrder())
}

```

\* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun ByteArray.sortedDescending(): List<Byte> {
 return copyOf().apply { sort() }.reversed()
}

```

\* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun ShortArray.sortedDescending(): List<Short> {
 return copyOf().apply { sort() }.reversed()
}

```

\* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun IntArray.sortedDescending(): List<Int> {
 return copyOf().apply { sort() }.reversed()
}

```

\* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun LongArray.sortedDescending(): List<Long> {
 return copyOf().apply { sort() }.reversed()
}

```

\* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun FloatArray.sortedDescending(): List<Float> {
 return copyOf().apply { sort() }.reversed()
}

```

\* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun DoubleArray.sortedDescending(): List<Double> {
 return copyOf().apply { sort() }.reversed()
}

```

\* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun CharArray.sortedDescending(): List<Char> {
 return copyOf().apply { sort() }.reversed()
}

```

\* Returns a list of all elements sorted according to the specified [comparator].

\* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {
 return sortedArrayWith(comparator).asList()
}

```

\* Returns a list of all elements sorted according to the specified [comparator].

```

public fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {
 return toTypedArray().apply { sortWith(comparator) }.asList()
}

```

\* Returns a list of all elements sorted according to the specified [comparator].

```

public fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {
 return toTypedArray().apply { sortWith(comparator) }.asList()
}

```

\* Returns a list of all

elements sorted according to the specified [comparator].

```

public fun IntArray.sortedWith(comparator:
Comparator<in Int>): List<Int> {
 return toTypedArray().apply {
 sortWith(comparator)
 }.asList()
}

```

Returns a list of all elements sorted according to the specified [comparator].

```

public fun
LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {
 return toTypedArray().apply {
 sortWith(comparator)
 }.asList()
}

```

Returns a list of all elements sorted according to the specified [comparator].

```

public fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {
 return toTypedArray().apply {
 sortWith(comparator)
 }.asList()
}

```

Returns a list of all elements sorted according to the specified [comparator].

```

public fun DoubleArray.sortedWith(comparator: Comparator<in Double>):
List<Double> {
 return toTypedArray().apply {
 sortWith(comparator)
 }.asList()
}

```

Returns a list of all elements sorted according to the specified [comparator].

```

public fun BooleanArray.sortedWith(comparator:
Comparator<in Boolean>): List<Boolean> {
 return toTypedArray().apply {
 sortWith(comparator)
 }.asList()
}

```

Returns a list of all elements sorted according to the specified [comparator].

```

public fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {
 return toTypedArray().apply {
 sortWith(comparator)
 }.asList()
}

```

Returns a [List] that wraps the original array.

```

public expect fun
<T> Array<out T>.asList(): List<T>

```

Returns a [List] that wraps the original array.

```

public expect fun
ByteArray.asList(): List<Byte>

```

Returns a [List] that wraps the original array.

```

public expect fun
ShortArray.asList(): List<Short>

```

Returns a [List] that wraps the original array.

```

public expect fun
IntArray.asList(): List<Int>

```

Returns a [List] that wraps the original array.

```

public expect fun
LongArray.asList(): List<Long>

```

Returns a [List] that wraps the original array.

```

public expect fun
FloatArray.asList(): List<Float>

```

Returns a [List] that wraps the original array.

```

public expect fun
DoubleArray.asList(): List<Double>

```

Returns a [List] that wraps the original array.

```

public expect fun
BooleanArray.asList(): List<Boolean>

```

Returns a [List] that wraps the original array.

```

public expect fun
CharArray.asList(): List<Char>

```

Returns `true` if the two specified arrays are *deeply* equal to one another, i.e. contain the same number of the same elements in the same order. If two corresponding elements are nested arrays, they are also compared deeply. If any of arrays contains itself on any nesting level the behavior is undefined. The elements of other types are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@SinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public expect
infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean

```

Returns `true` if the two specified arrays are *deeply* equal to one another, i.e. contain the same number of the same elements in the same order. The specified arrays are also considered deeply equal if both are `null`. If two corresponding elements are nested arrays, they are also compared deeply. If any of arrays contains itself on any nesting level the behavior is undefined. The elements of other types are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@SinceKotlin("1.4")
public expect infix fun <T> Array<out T>?.contentDeepEquals(other:
Array<out T>?): Boolean

```

Returns a hash code based on the contents of this array as if it is [List]. Nested arrays are treated as lists too. If any of arrays contains itself on any nesting level the behavior is undefined.

```

@SinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public expect fun
<T> Array<out T>.contentDeepHashCode(): Int

```

Returns a hash code based on the contents of this array as if it is [List]. Nested arrays are treated as lists too. If any of arrays contains itself on any nesting level the behavior is undefined.

```

@SinceKotlin("1.4")
public expect fun <T> Array<out
T>?.contentDeepHashCode(): Int

```

Returns a string representation of the contents of this array as if it is a [List]. Nested arrays are treated as lists too. If any of arrays contains itself on any nesting level that reference is rendered as `[...]` to prevent recursion.

```

@sample
samples.collections.Arrays.ContentOperations.contentDeepToString

```

```

@SinceKotlin("1.1")
@kotlin.internal.LowPriorityInOverloadResolution
public expect fun <T> Array<out
T>.contentDeepToString(): String

```

Returns a string representation of the contents of this array as if it is a [List]. Nested arrays are treated as lists too. If any of arrays contains itself on any nesting level that

reference\n \* is rendered as `\"[...]\"` to prevent recursion.\n \* \n \* @sample

`samples.collections.Arrays.ContentOperations.contentDeepToString`\n \* \n \* @SinceKotlin(\"1.4\")\n \* public expect fun

`<T> Array<out T>?.contentDeepToString(): String`\n \* \n \* Returns ``true`` if the two specified arrays are

\*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n

\* The elements are compared for equality with the `[equals][Any.equals]` function.\n \* For floating point numbers it

means that ``NaN`` is equal to itself and ``-0.0`` is not equal to ``0.0``.\n \* \n \* @Deprecated(\"Use Kotlin compiler 1.4 to

avoid deprecation warning.\")\n \* @SinceKotlin(\"1.1\")\n \* @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n \* public

expect infix fun `<T> Array<out T>.contentEquals(other: Array<out T>): Boolean`\n \* \n \* Returns ``true`` if the

two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements

in the same order.\n \* \n \* The elements are compared for equality with the `[equals][Any.equals]` function.\n \* For

floating point numbers it means that ``NaN`` is equal to itself and ``-0.0`` is not equal to ``0.0``.\n

\* \n \* @Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation

warning.\")\n \* @SinceKotlin(\"1.1\")\n \* @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n \* public expect infix fun

`ByteArray.contentEquals(other: ByteArray): Boolean`\n \* \n \* Returns ``true`` if the two specified arrays are

\*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n

\* The elements are compared for equality with the `[equals][Any.equals]` function.\n \* For floating point numbers it

means that ``NaN`` is equal to itself and ``-0.0`` is not equal to ``0.0``.\n \* \n \* @Deprecated(\"Use Kotlin compiler 1.4 to

avoid deprecation warning.\")\n \* @SinceKotlin(\"1.1\")\n \* @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n \* public

expect infix fun `ShortArray.contentEquals(other: ShortArray): Boolean`\n \* \n \* Returns ``true`` if the two specified

arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same

order.\n \* \n \* The elements are compared for equality with the `[equals][Any.equals]` function.\n \* For floating point

numbers it means that ``NaN`` is equal to itself and ``-0.0`` is not equal to ``0.0``.\n \* \n \* @Deprecated(\"Use Kotlin

compiler 1.4 to avoid deprecation warning.\")\n \* @SinceKotlin(\"1.1\")\n \* @DeprecatedSinceKotlin(hiddenSince =

\"1.4\")\n \* public expect infix fun `IntArray.contentEquals(other: IntArray): Boolean`\n \* \n \* Returns ``true`` if the

two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements

in the same order.\n \* \n \* The elements are compared for equality with the `[equals][Any.equals]` function.\n \* For

floating point numbers it means that ``NaN`` is equal to itself and ``-0.0`` is not equal to ``0.0``.\n

\* \n \* @Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation

warning.\")\n \* @SinceKotlin(\"1.1\")\n \* @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n \* public expect infix fun

`LongArray.contentEquals(other: LongArray): Boolean`\n \* \n \* Returns ``true`` if the two specified arrays are

\*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n

\* The elements are compared for equality with the `[equals][Any.equals]` function.\n \* For floating point numbers it

means that ``NaN`` is equal to itself and ``-0.0`` is not equal to ``0.0``.\n \* \n \* @Deprecated(\"Use Kotlin compiler 1.4 to

avoid deprecation warning.\")\n \* @SinceKotlin(\"1.1\")\n \* @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n \* public

expect infix fun `FloatArray.contentEquals(other: FloatArray): Boolean`\n \* \n \* Returns ``true`` if the two specified

arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same

order.\n \* \n \* The elements are compared for equality with the `[equals][Any.equals]` function.\n \* For floating point

numbers it means that ``NaN`` is equal to itself and ``-0.0`` is not equal to ``0.0``.\n \* \n \* @Deprecated(\"Use Kotlin

compiler 1.4 to avoid deprecation warning.\")\n \* @SinceKotlin(\"1.1\")\n \* @DeprecatedSinceKotlin(hiddenSince =

\"1.4\")\n \* public expect infix fun `DoubleArray.contentEquals(other: DoubleArray): Boolean`\n \* \n \* Returns

``true`` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the

same elements in the same order.\n \* \n \* The elements are compared for equality with the `[equals][Any.equals]`

function.\n \* For floating point numbers it means that ``NaN`` is equal to itself and ``-0.0`` is not equal to ``0.0``.\n

\* \n \* @Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation

warning.\")\n \* @SinceKotlin(\"1.1\")\n \* @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n \* public expect infix fun

`BooleanArray.contentEquals(other: BooleanArray): Boolean`\n \* \n \* Returns ``true`` if the two specified arrays are

\*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n

\* The elements are compared for equality with the `[equals][Any.equals]` function.\n \* For floating point numbers it

means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public expect infix fun CharArray.contentEquals(other: CharArray): Boolean
// Returns `true` if the two specified arrays are *structurally* equal to one another,
// i.e. contain the same number of the same elements in the same order.
// The elements are compared for equality with the [equals][Any.equals] function.
// For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@SinceKotlin("1.4")
public expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean
// Returns `true` if the two specified arrays are *structurally* equal to one another,
// i.e. contain the same number of the same elements in the same order.
// The elements are compared for equality with the [equals][Any.equals] function.
// For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@SinceKotlin("1.4")
public expect infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean
// Returns `true` if the two specified arrays are *structurally* equal to one another,
// i.e. contain the same number of the same elements in the same order.
// The elements are compared for equality with the [equals][Any.equals] function.
// For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@SinceKotlin("1.4")
public expect infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean
// Returns `true` if the two specified arrays are *structurally* equal to one another,
// i.e. contain the same number of the same elements in the same order.
// The elements are compared for equality with the [equals][Any.equals] function.
// For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@SinceKotlin("1.4")
public expect infix fun IntArray?.contentEquals(other: IntArray?): Boolean
// Returns `true` if the two specified arrays are *structurally* equal to one another,
// i.e. contain the same number of the same elements in the same order.
// The elements are compared for equality with the [equals][Any.equals] function.
// For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@SinceKotlin("1.4")
public expect infix fun LongArray?.contentEquals(other: LongArray?): Boolean
// Returns `true` if the two specified arrays are *structurally* equal to one another,
// i.e. contain the same number of the same elements in the same order.
// The elements are compared for equality with the [equals][Any.equals] function.
// For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@SinceKotlin("1.4")
public expect infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean
// Returns `true` if the two specified arrays are *structurally* equal to one another,
// i.e. contain the same number of the same elements in the same order.
// The elements are compared for equality with the [equals][Any.equals] function.
// For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@SinceKotlin("1.4")
public expect infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean
// Returns `true` if the two specified arrays are *structurally* equal to one another,
// i.e. contain the same number of the same elements in the same order.
// The elements are compared for equality with the [equals][Any.equals] function.
// For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@SinceKotlin("1.4")
public expect infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean
// Returns `true` if the two specified arrays are *structurally* equal to one another,
// i.e. contain the same number of the same elements in the same order.
// The elements are compared for equality with the [equals][Any.equals] function.
// For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.
@SinceKotlin("1.4")
public expect infix fun CharArray?.contentHashCode(): Int
// Returns a hash code based on the contents of this array as if it is [List].
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public expect fun <T> Array<out T>.contentHashCode(): Int
// Returns a hash code based on the contents of this array as if it is [List].
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public expect fun ByteArray.contentHashCode(): Int
// Returns a hash code based on the contents of this array as if it is [List].
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public expect fun

```





if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation\n warning.\n")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public expect fun\n LongArray.contentToString(): String\n\n \*\*\n \* Returns a string representation of the contents of the specified array\n as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation\n warning.\n")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public expect fun\n FloatArray.contentToString(): String\n\n \*\*\n \* Returns a string representation of the contents of the specified array\n as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation\n warning.\n")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public expect fun\n DoubleArray.contentToString(): String\n\n \*\*\n \* Returns a string representation of the contents of the specified\n array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation\n warning.\n")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public expect fun\n BooleanArray.contentToString(): String\n\n \*\*\n \* Returns a string representation of the contents of the specified\n array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation\n warning.\n")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public expect fun\n CharArray.contentToString(): String\n\n \*\*\n \* Returns a string representation of the contents of the specified array\n as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n public expect fun <T> Array<out T>?.contentToString(): String\n\n \*\*\n \* Returns a\n string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample\n samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n public expect fun\n ByteArray?.contentToString(): String\n\n \*\*\n \* Returns a string representation of the contents of the specified array\n as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n public expect fun ShortArray?.contentToString(): String\n\n \*\*\n \* Returns a string\n representation of the contents of the specified array as if it is [List].\n \* \n \* @sample\n samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n public expect fun\n IntArray?.contentToString(): String\n\n \*\*\n \* Returns a string representation of the contents of the specified array\n as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n public expect fun LongArray?.contentToString(): String\n\n \*\*\n \* Returns a string\n representation of the contents of the specified array as if it is [List].\n \* \n \* @sample\n samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n public expect fun\n FloatArray?.contentToString(): String\n\n \*\*\n \* Returns a string representation of the contents of the specified\n array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n public expect fun DoubleArray?.contentToString(): String\n\n \*\*\n \* Returns a string\n representation of the contents of the specified array as if it is [List].\n \* \n \* @sample\n samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n public expect fun\n BooleanArray?.contentToString(): String\n\n \*\*\n \* Returns a string representation of the contents of the specified\n array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n public expect fun CharArray?.contentToString(): String\n\n \*\*\n \* Copies this array or\n its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the\n [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param\n destination the array to copy to.\n \* \n \* @param destinationOffset the position in the [destination] array to copy to, 0 by\n default.\n \* \n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* \n \* @param\n endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws\n IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this

array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n \* \n \* \n \* \n \* \n \* @SinceKotlin("1.3")\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n \* \n \* \n \* \n \* \n \* @SinceKotlin("1.3")\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n \* \n \* \n \* \n \* \n \* @SinceKotlin("1.3")\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n \* \n \* \n \* \n \* \n \* @SinceKotlin("1.3")\npublic expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n \* \n \* \n \* \n \* \n \* @SinceKotlin("1.3")\npublic expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the

destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\npublic expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n *\n@SinceKotlin("1.3")\npublic expect fun
```

```
DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\npublic expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n *\n@SinceKotlin("1.3")\npublic expect fun
```

```
CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
```

```
*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect fun <T> Array<T>.copyOf():
```

```
Array<T>\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\npublic expect fun ByteArray.copyOf():
```

```
ByteArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\npublic expect fun ShortArray.copyOf():
```

```
ShortArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
```

samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun IntArray.copyOf(): IntArray\n\n\*\*\n
 \* Returns new array which is a copy of the original array.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun LongArray.copyOf():
 LongArray\n\n\*\*\n
 \* Returns new array which is a copy of the original array.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun FloatArray.copyOf():
 FloatArray\n\n\*\*\n
 \* Returns new array which is a copy of the original array.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun DoubleArray.copyOf():
 DoubleArray\n\n\*\*\n
 \* Returns new array which is a copy of the original array.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun BooleanArray.copyOf():
 BooleanArray\n\n\*\*\n
 \* Returns new array which is a copy of the original array.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n \*\npublic expect fun CharArray.copyOf():
 CharArray\n\n\*\*\n
 \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \*
 The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*\npublic expect fun
 ByteArray.copyOf(newSize: Int): ByteArray\n\n\*\*\n
 \* Returns new array which is a copy of the original array,
 resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n
 \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If
 [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
 values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*\npublic
 expect fun ShortArray.copyOf(newSize: Int): ShortArray\n\n\*\*\n
 \* Returns new array which is a copy of the
 original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values
 if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the
 [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
 filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
 \*\npublic expect fun IntArray.copyOf(newSize: Int): IntArray\n\n\*\*\n
 \* Returns new array which is a copy of the
 original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values
 if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the
 [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
 filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
 \*\npublic expect fun LongArray.copyOf(newSize: Int): LongArray\n\n\*\*\n
 \* Returns new array which is a copy of
 the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero
 values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to
 the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array
 are filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
 \*\npublic expect fun FloatArray.copyOf(newSize: Int): FloatArray\n\n\*\*\n
 \* Returns new array which is a copy of
 the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero
 values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to
 the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array
 are filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
 \*\npublic expect fun DoubleArray.copyOf(newSize: Int): DoubleArray\n\n\*\*\n
 \* Returns new array which is a
 copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with
 `false` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is
 truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in
 the copy array are filled with `false` values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
 \*\npublic expect fun
 BooleanArray.copyOf(newSize: Int): BooleanArray\n\n\*\*\n
 \* Returns new array which is a copy of the original

array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with null char ('\u0000') values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char ('\u0000') values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun  
CharArray.copyOf(newSize: Int): CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `null` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException

if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws  
 IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun  
 BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/\*\*\n \* Returns a new array which is a  
 copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to  
 copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException  
 if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws  
 IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun  
 CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/\*\*\n \* Fills this array or its subrange with the  
 specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* \n \*  
 @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws  
 IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this  
 array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n  
 \*/\n@SinceKotlin("1.3")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or  
 its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill,  
 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \*  
 @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this  
 array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n  
 \*/\n@SinceKotlin("1.3")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size):  
 Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the  
 start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of  
 this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is  
 greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n  
 \*/\n@SinceKotlin("1.3")\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int =  
 size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex  
 the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size  
 of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]  
 is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than  
 [toIndex].\n \*/\n\n  
 \*/\n@SinceKotlin("1.3")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int =  
 size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param  
 fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive)  
 to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero  
 or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater  
 than [toIndex].\n \*/\n\n  
 \*/\n@SinceKotlin("1.3")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0,  
 toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \*  
 @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range  
 (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less  
 than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is  
 greater than [toIndex].\n \*/\n\n  
 \*/\n@SinceKotlin("1.3")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size):  
 Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex  
 the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range  
 (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less  
 than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is  
 greater than [toIndex].\n \*/\n\n  
 \*/\n@SinceKotlin("1.3")\npublic expect fun DoubleArray.fill(element: Double,  
 fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element]  
 value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end  
 of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if  
 [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws  
 IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n  
 \*/\n@SinceKotlin("1.3")\npublic expect fun

```

BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its
subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0
by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
\n@SinceKotlin("1.3")\npublic expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size):
Unit\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val <T> Array<out T>.indices:
IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic
val ByteArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for
the array.\n */\npublic val ShortArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the
range of valid indices for the array.\n */\npublic val IntArray.indices: IntRange\n get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val LongArray.indices:
IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic
val FloatArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for
the array.\n */\npublic val DoubleArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the
range of valid indices for the array.\n */\npublic val BooleanArray.indices: IntRange\n get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val CharArray.indices: IntRange\n
 get() = IntRange(0, lastIndex)\n\n/**\n * Returns `true` if the array is empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty(): Boolean {\n return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty():
Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty():
Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty(): Boolean {\n return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline
fun ShortArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline
fun LongArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline
fun DoubleArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n\n*\n*@kotlin.internal.InlineOnly\npublic inline
fun CharArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the
array.\n */\n\n*\npublic val <T> Array<out T>.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index
for the array.\n */\n\n*\npublic val ByteArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for
the array.\n */\n\n*\npublic val ShortArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the

```

array.  
`public val IntArray.lastIndex: Int`  
`get() = size - 1`  
Returns the last valid index for the array.  
`public val LongArray.lastIndex: Int`  
`get() = size - 1`  
Returns the last valid index for the array.  
`public val FloatArray.lastIndex: Int`  
`get() = size - 1`  
Returns the last valid index for the array.  
`public val DoubleArray.lastIndex: Int`  
`get() = size - 1`  
Returns the last valid index for the array.  
`public val BooleanArray.lastIndex: Int`  
`get() = size - 1`  
Returns the last valid index for the array.  
`public val CharArray.lastIndex: Int`  
`get() = size - 1`  
Returns an array containing all elements of the original array and then the given [element].  
`@Suppress("NO_ACTUAL_FOR_EXPECT")`  
`public expect operator fun <T> Array<T>.plus(element: T): Array<T>`  
Returns an array containing all elements of the original array and then the given [element].  
`public expect operator fun ByteArray.plus(element: Byte): ByteArray`  
Returns an array containing all elements of the original array and then the given [element].  
`public expect operator fun ShortArray.plus(element: Short): ShortArray`  
Returns an array containing all elements of the original array and then the given [element].  
`public expect operator fun IntArray.plus(element: Int): IntArray`  
Returns an array containing all elements of the original array and then the given [element].  
`public expect operator fun LongArray.plus(element: Long): LongArray`  
Returns an array containing all elements of the original array and then the given [element].  
`public expect operator fun FloatArray.plus(element: Float): FloatArray`  
Returns an array containing all elements of the original array and then the given [element].  
`public expect operator fun DoubleArray.plus(element: Double): DoubleArray`  
Returns an array containing all elements of the original array and then the given [element].  
`public expect operator fun BooleanArray.plus(element: Boolean): BooleanArray`  
Returns an array containing all elements of the original array and then the given [element].  
`public expect operator fun CharArray.plus(element: Char): CharArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`@Suppress("NO_ACTUAL_FOR_EXPECT")`  
`public expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun IntArray.plus(elements: Collection<Int>): IntArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun LongArray.plus(elements: Collection<Long>): LongArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] collection.  
`public expect operator fun CharArray.plus(elements: Collection<Char>): CharArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`@Suppress("NO_ACTUAL_FOR_EXPECT")`  
`public expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun ByteArray.plus(elements: ByteArray): ByteArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun ShortArray.plus(elements: ShortArray): ShortArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.  
`public expect operator fun IntArray.plus(elements: IntArray): IntArray`  
Returns an array containing all elements of the original array and then all elements of the given [elements] array.



Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`LongArray.plus(elements: LongArray): LongArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`FloatArray.plus(elements: FloatArray): FloatArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`DoubleArray.plus(elements: DoubleArray): DoubleArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`BooleanArray.plus(elements: BooleanArray): BooleanArray` Returns an array containing all elements of the original array and then all elements of the given [elements] array.

`CharArray.plus(elements: CharArray): CharArray` Returns an array containing all elements of the original array and then the given [element].

`@Suppress("NO_ACTUAL_FOR_EXPECT") public expect fun <T> Array<T>.plusElement(element: T): Array<T>` Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`IntArray.sort(): Unit` Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`LongArray.sort(): Unit` Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`ByteArray.sort(): Unit` Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`ShortArray.sort(): Unit` Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`DoubleArray.sort(): Unit` Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`FloatArray.sort(): Unit` Sorts the array in-place.

`@sample samples.collections.Arrays.Sorting.sortArray`

`CharArray.sort(): Unit` Sorts the array in-place according to the natural order of its elements.

The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

`@sample samples.collections.Arrays.Sorting.sortArrayOfComparable`

`<T : Comparable<T>> Array<out T>.sort(): Unit` Sorts a range in the array in-place.

The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`@sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable`

`@SinceKotlin("1.4") public expect fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit` Sorts a range in the array in-place.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`@sample samples.collections.Arrays.Sorting.sortRangeOfArray`

`@SinceKotlin("1.4") public expect fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit` Sorts a range in the array in-place.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`@sample samples.collections.Arrays.Sorting.sortRangeOfArray`

`@SinceKotlin("1.4") public expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit` Sorts a range in the array in-place.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`@sample samples.collections.Arrays.Sorting.sortRangeOfArray`

`@SinceKotlin("1.4") public expect fun`

```

IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n\n@SinceKotlin("1.4")\npublic expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n\n@SinceKotlin("1.4")\npublic expect fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n\n@SinceKotlin("1.4")\npublic expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n\n@SinceKotlin("1.4")\npublic expect fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sortWith(reverseOrder(), fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified

```

range in-place.\n \* The elements are sorted descending according to their natural sort order.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort.\n \* @param toIndex the end of the range (exclusive) to sort.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

```
*\n@SinceKotlin("1.4")\npublic fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.4")\npublic fun FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.4")\npublic fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/**\n * Sorts a range in the array in-place with the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns an array of Boolean containing all of the elements of this generic array.\n *\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n return BooleanArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this generic array.\n *\npublic fun Array<out Byte>.toByteArray(): ByteArray {\n return ByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Char containing all of the elements of this generic array.\n *\npublic fun Array<out Char>.toCharArray(): CharArray {\n return CharArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Double containing all of the elements of this generic array.\n *\npublic fun Array<out Double>.toDoubleArray(): DoubleArray {\n return DoubleArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Float containing all of the elements of this generic array.\n *\npublic fun Array<out Float>.toFloatArray(): FloatArray {\n return FloatArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Int containing all of the elements of this generic array.\n *\npublic fun Array<out Int>.toIntArray(): IntArray {\n return IntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Long containing all of the elements of this generic array.\n *\npublic fun Array<out Long>.toLongArray(): LongArray {\n return LongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Short containing all of the elements of this generic array.\n *\npublic fun Array<out Short>.toShortArray(): ShortArray {\n return ShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements
```

of this primitive array.

```

public expect fun ByteArray.toTypedArray(): Array<Byte>

```

Returns a \*typed\* object array containing all of the elements of this primitive array.

```

public expect fun ShortArray.toTypedArray(): Array<Short>

```

Returns a \*typed\* object array containing all of the elements of this primitive array.

```

public expect fun IntArray.toTypedArray(): Array<Int>

```

Returns a \*typed\* object array containing all of the elements of this primitive array.

```

public expect fun LongArray.toTypedArray(): Array<Long>

```

Returns a \*typed\* object array containing all of the elements of this primitive array.

```

public expect fun FloatArray.toTypedArray(): Array<Float>

```

Returns a \*typed\* object array containing all of the elements of this primitive array.

```

public expect fun DoubleArray.toTypedArray(): Array<Double>

```

Returns a \*typed\* object array containing all of the elements of this primitive array.

```

public expect fun BooleanArray.toTypedArray(): Array<Boolean>

```

Returns a \*typed\* object array containing all of the elements of this primitive array.

```

public expect fun CharArray.toTypedArray(): Array<Char>

```

Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.

If any of two pairs would have the same key the last one gets added to the map.

The returned map preserves the entry iteration order of the original array.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <T, K, V> Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
 val capacity = mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

```

Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.

If any of two pairs would have the same key the last one gets added to the map.

The returned map preserves the entry iteration order of the original array.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {
 val capacity = mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

```

Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.

If any of two pairs would have the same key the last one gets added to the map.

The returned map preserves the entry iteration order of the original array.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {
 val capacity = mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

```

Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.

If any of two pairs would have the same key the last one gets added to the map.

The returned map preserves the entry iteration order of the original array.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {
 val capacity = mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

```

Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.

If any of two pairs would have the same key the last one gets added to the map.

The returned map preserves the entry iteration order of the original array.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V> LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {
 val capacity = mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

```

Returns a [Map] containing key-value pairs provided by [transform] function applied to elements of the given array.

If any of two pairs would have the same key the last one gets added to the map.

The returned map preserves the entry iteration order of the original array.

```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V> FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {
 val capacity = mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

```

Returns a [Map] containing key-value pairs provided by [transform] function applied to

elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \* \n public inline fun <K, V> DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \* \n public inline fun <K, V> BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \* \n public inline fun <K, V> CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n public inline fun <T, K> Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n public inline fun <K> ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Byte>(capacity), keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n public inline fun <K> ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Short>(capacity), keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n public inline fun <K> IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Int>(capacity), keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration

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order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <K>
LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Long>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <K>
FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Float>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <K>
DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Double>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <K>
BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Boolean>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *^\npublic inline fun <K>
CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *^\npublic inline
fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n val
capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *^\npublic inline
fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n val
capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would

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have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

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samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V>
{\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by
[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V>
{\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by
[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value

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pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample

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samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\nPopulates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\nPopulates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\nPopulates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\nPopulates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\nPopulates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\nPopulates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\nPopulates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}
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return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),

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valueTransform(element))\n } return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector:
(Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n } return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n *
\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *
\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\n
public inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M,
keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n } return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n *
\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *
\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\n
public inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector:
(Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n } return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n } return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n } return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n } return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n } return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) ->

```

Pair<K, V>): M { \n for (element in this) { \n destination += transform(element)\n } \n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs\n \* provided by [transform] function applied to each element of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* @sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \npublic inline fun <K, V, M :
MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M { \n for
(element in this) { \n destination += transform(element)\n } \n return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \npublic
inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) ->
Pair<K, V>): M { \n for (element in this) { \n destination += transform(element)\n } \n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \npublic inline fun <K, V, M :
MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M { \n
for (element in this) { \n destination += transform(element)\n } \n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n * \npublic
inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) ->
Pair<K, V>): M { \n for (element in this) { \n destination += transform(element)\n } \n return
destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced
by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample
samples.collections.Collections.Transformations.associateWith\n * \n@SinceKotlin("1.4")\npublic inline
fun <K, V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> { \n val result =
LinkedHashMap<K, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample
samples.collections.Collections.Transformations.associateWith\n
* \n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> { \n val result = LinkedHashMap<Byte,
V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
* \n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> { \n val result = LinkedHashMap<Short,
V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
* \n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>

```

```

IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> {\n val result = LinkedHashMap<Int,
V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> {\n val result = LinkedHashMap<Long,
V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> {\n val result = LinkedHashMap<Float,
V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> {\n val result =
LinkedHashMap<Double, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {\n val result =
LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n val result = LinkedHashMap<Char,
V>(mapCapacity(size.coerceAtMost(128)).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n
*\n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Array<out K>.associateWithTo(destination: M, valueSelector: (K)
-> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Byte, in V>>

```

```

ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {
 for (element in this) {
 destination.put(element, valueSelector(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs for each element of the given array, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.

@sample  
samples.collections.Collections.Transformations.associateWithTo

```

*SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Short, in V>>
ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {
 for (element in this) {
 destination.put(element, valueSelector(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs for each element of the given array, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.

@sample  
samples.collections.Collections.Transformations.associateWithTo

```

*SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Int, in V>>
IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {
 for (element in this) {
 destination.put(element, valueSelector(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs for each element of the given array, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.

@sample  
samples.collections.Collections.Transformations.associateWithTo

```

*SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Long, in V>>
LongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {
 for (element in this) {
 destination.put(element, valueSelector(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs for each element of the given array, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.

@sample  
samples.collections.Collections.Transformations.associateWithTo

```

*SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Float, in V>>
FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {
 for (element in this) {
 destination.put(element, valueSelector(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs for each element of the given array, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.

@sample  
samples.collections.Collections.Transformations.associateWithTo

```

*SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Double, in V>>
DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {
 for (element in this) {
 destination.put(element, valueSelector(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs for each element of the given array, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.

@sample  
samples.collections.Collections.Transformations.associateWithTo

```

*SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Boolean, in V>>
BooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {
 for (element in this) {
 destination.put(element, valueSelector(element))
 }
 return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs for each element of the given array, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map.

@sample  
samples.collections.Collections.Transformations.associateWithTo

```

*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Char, in V>>
CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n for (element in this) {\n
destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all elements to
the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Array<out
T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C :
MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n for (item in this) {\n
destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n */\npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {\n for
(item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the
given [destination] collection.\n */\npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination:
C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all
elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Long>>
LongArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C :
MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {\n for (item in this) {\n
destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n */\npublic fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {\n
for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the
given [destination] collection.\n */\npublic fun <C : MutableCollection<in Boolean>>
BooleanArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C :
MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n for (item in this) {\n
destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\n
*\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n return
toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic
fun ByteArray.toHashSet(): HashSet<Byte> {\n return
toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\n
*\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n return
toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\n
*\npublic fun IntArray.toHashSet(): HashSet<Int> {\n return
toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic
fun LongArray.toHashSet(): HashSet<Long> {\n return
toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\n
*\npublic fun FloatArray.toHashSet(): HashSet<Float> {\n return
toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\n
*\npublic fun DoubleArray.toHashSet(): HashSet<Double> {\n return
toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\n
*\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n return
toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\n
*\npublic fun CharArray.toHashSet(): HashSet<Char> {\n return
toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun <T> Array<out T>.toList(): List<T> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun ByteArray.toList(): List<Byte> {\n return when (size) {\n 0 -> emptyList()\n 1
-> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\n
*\npublic fun ShortArray.toList(): List<Short> {\n return when (size) {\n 0 -> emptyList()\n 1 ->
listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n */

```

```

*\npublic fun IntArray.toList(): List<Int> {\n return when (size) {\n 0 -> emptyList()\n 1 ->
listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun LongArray.toList(): List<Long> {\n return when (size) {\n 0 -> emptyList()\n 1 ->
listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun FloatArray.toList(): List<Float> {\n return when (size) {\n 0 -> emptyList()\n 1 ->
listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun DoubleArray.toList(): List<Double> {\n return when (size) {\n 0 -> emptyList()\n 1 ->
listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun BooleanArray.toList(): List<Boolean> {\n return when (size) {\n 0 -> emptyList()\n 1 ->
listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun CharArray.toList(): List<Char> {\n return when (size) {\n 0 -> emptyList()\n 1 ->
listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a new [MutableList] filled with all
elements of this array.\n */
*\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n return
ArrayList(this.asCollection())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */
*\npublic fun ByteArray.toMutableList(): MutableList<Byte> {\n val list = ArrayList<Byte>(size)\n for (item
in this) list.add(item)\n return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this
array.\n */
*\npublic fun ShortArray.toMutableList(): MutableList<Short> {\n val list = ArrayList<Short>(size)\n for (item
in this) list.add(item)\n return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this array.\n */
*\npublic fun IntArray.toMutableList(): MutableList<Int> {\n val list = ArrayList<Int>(size)\n for (item
in this) list.add(item)\n return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this
array.\n */
*\npublic fun LongArray.toMutableList(): MutableList<Long> {\n val list = ArrayList<Long>(size)\n for (item
in this) list.add(item)\n return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this array.\n */
*\npublic fun FloatArray.toMutableList(): MutableList<Float> {\n val list =
ArrayList<Float>(size)\n for (item in this) list.add(item)\n return list\n}\n\n/**\n * Returns a new [MutableList]
filled with all elements of this array.\n */
*\npublic fun DoubleArray.toMutableList(): MutableList<Double> {\n val
list = ArrayList<Double>(size)\n for (item in this) list.add(item)\n return list\n}\n\n/**\n * Returns a new
[MutableList] filled with all elements of this array.\n */
*\npublic fun BooleanArray.toMutableList():
MutableList<Boolean> {\n val list = ArrayList<Boolean>(size)\n for (item in this) list.add(item)\n return
list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */
*\npublic fun
CharArray.toMutableList(): MutableList<Char> {\n val list = ArrayList<Char>(size)\n for (item in this)
list.add(item)\n return list\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the
element iteration order of the original array.\n */
*\npublic fun <T> Array<out T>.toSet(): Set<T> {\n return when
(size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n *
The returned set preserves the element iteration order of the original array.\n */
*\npublic fun ByteArray.toSet():
Set<Byte> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n *
The returned set preserves the element iteration order of the original array.\n */
*\npublic fun ShortArray.toSet():
Set<Short> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n *
The returned set preserves the element iteration order of the original array.\n */
*\npublic fun IntArray.toSet():
Set<Int> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n *
The returned set preserves the element iteration order of the original array.\n */
*\npublic fun LongArray.toSet():
Set<Long> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n *
The returned set preserves the element iteration order of the original array.\n */
*\npublic fun FloatArray.toSet():
Set<Float> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->

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toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n } \n\n\n\n * Returns a [Set] of all elements.\n * \n
 * The returned set preserves the element iteration order of the original array.\n *\npublic fun DoubleArray.toSet():
Set<Double> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n } \n}\n\n\n\n * Returns a [Set] of all elements.\n *
\n * The returned set preserves the element iteration order of the original array.\n *\npublic fun
BooleanArray.toSet(): Set<Boolean> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n
else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n } \n}\n\n\n\n * Returns a [Set] of all
elements.\n * \n * The returned set preserves the element iteration order of the original array.\n *\npublic fun
CharArray.toSet(): Set<Char> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -
-> toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n } \n}\n\n\n\n\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n} \n}\n\n\n\n\n *
Returns a single list of all elements yielded from results of [transform] function being invoked on each element of
original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun
<R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n} \n}\n\n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R> ShortArray.flatMap(transform:
(Short) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n} \n}\n\n\n\n\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R>
IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n} \n}\n\n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R> LongArray.flatMap(transform:
(Long) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n} \n}\n\n\n\n\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R>
FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n} \n}\n\n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R>
DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n} \n}\n\n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R>
BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n} \n}\n\n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R> CharArray.flatMap(transform:
(Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n} \n}\n\n\n\n\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n
*\n\n * @SinceKotlin("1.4")\n\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n * @OverloadResolution
ByLambdaReturnType\n\n * @kotlin.jvm.JvmName("flatMapSequence")\n\npublic inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n} \n}\n\n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being

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invoked on each element\n \* and its index in the original array.\n \* \n \* @sample

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samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {\n
return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded

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from results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \*  
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic  
inline fun <R> CharArray.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n return  
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from  
results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \*  
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npubli  
c inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n return  
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Appends all elements yielded from results of  
[transform] function being invoked on each element\n \* and its index in the original array, to the given  
[destination].\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli  
c inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:  
(index: Int, T) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,  
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/\*\*\n \* Appends all elements yielded from  
results of [transform] function being invoked on each element\n \* and its index in the original array, to the given  
[destination].\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli  
c inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int,  
Byte) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,  
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/\*\*\n \* Appends all elements yielded from  
results of [transform] function being invoked on each element\n \* and its index in the original array, to the given  
[destination].\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli  
c inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int,  
Short) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,  
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/\*\*\n \* Appends all elements yielded from  
results of [transform] function being invoked on each element\n \* and its index in the original array, to the given  
[destination].\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli  
c inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int,  
Int) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n  
destination.addAll(list)\n }\n return destination\n}\n\n/\*\*\n \* Appends all elements yielded from results of  
[transform] function being invoked on each element\n \* and its index in the original array, to the given  
[destination].\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli  
c inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Int,  
Long) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,  
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/\*\*\n \* Appends all elements yielded from  
results of [transform] function being invoked on each element\n \* and its index in the original array, to the given

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[destination].\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination: C, transform: (index: Int, Float) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,\n element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from\n results of [transform] function being invoked on each element\n * and its index in the original array, to the given\n [destination].\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index: Int, Double) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,\n element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from\n results of [transform] function being invoked on each element\n * and its index in the original array, to the given\n [destination].\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapIndexedTo(destination: C, transform: (index: Int, Boolean) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,\n element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from\n results of [transform] function being invoked on each element\n * and its index in the original array, to the given\n [destination].\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int, Char) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,\n element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from\n results of [transform] function being invoked on each element\n * and its index in the original array, to the given\n [destination].\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {\n var index = 0\n for (element in this) {\n val list =\n transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all\n elements yielded from results of [transform] function being invoked on each element of original array, to the given\n [destination].\n\n * \npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C,\n transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of\n [transform] function being invoked on each element of original array, to the given [destination].\n\n * \npublic inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return\n destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each\n element of original array, to the given [destination].\n\n * \npublic inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n for (element in this) {\n val\n list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all\n elements yielded from results of [transform] function being invoked on each element of original array, to the given\n [destination].\n\n * \npublic inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C,\n transform: (Int) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
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destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C,
transform: (Double) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) ->
Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n
} \n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun
<T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return
groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups elements of the original
array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where
each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n return groupByTo(LinkedHashMap<K,
MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic
inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n return
groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n return groupByTo(LinkedHashMap<K,
MutableList<Int>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the

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given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \*/\npublic inline fun <K> CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \*/\npublic inline fun <T, K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \*/\npublic inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \*/\npublic inline fun <K, V> ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Groups values

returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

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samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is
associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the
keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is
associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the
keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to
the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -
> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key)
{ ArrayList<T>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the

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original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <K, M : MutableMap<in K, MutableList<Byte>>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -
-> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key)
{ ArrayList<Byte>() }\n list.add(element)\n }\n return destination}\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <K, M : MutableMap<in K, MutableList<Short>>>> ShortArray.groupByTo(destination: M, keySelector: (Short)
-> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Short>() }\n list.add(element)\n }\n return destination}\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Int>>>> IntArray.groupByTo(destination: M,
keySelector: (Int) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Int>() }\n list.add(element)\n }\n return destination}\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Long>>>> LongArray.groupByTo(destination: M,
keySelector: (Long) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Long>() }\n list.add(element)\n }\n return destination}\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Float>>>> FloatArray.groupByTo(destination: M,
keySelector: (Float) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Float>() }\n list.add(element)\n }\n return destination}\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Double>>>> DoubleArray.groupByTo(destination: M,
keySelector: (Double) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Double>() }\n list.add(element)\n }\n return destination}\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Boolean>>>> BooleanArray.groupByTo(destination:
M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Boolean>() }\n list.add(element)\n }\n return
destination}\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and puts to the [destination] map each group key associated with a list of
corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K,
MutableList<Char>>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in
this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Char>() }\n

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list.add(element)\n } \n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to
the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n *
\n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector:
(Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector:
(Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector:
(Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector:
(Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector:
(Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector:

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(Double) -> K, valueTransform: (Double) -> V): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key) { ArrayList<V>() }
 list.add(valueTransform(element))
 }
 return destination
}

Groups values returned by the [valueTransform] function applied to each element of the original array by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.

@return The [destination] map.
@sample
samples.collections.Collections.Transformations.groupByKeyAndValues

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key) { ArrayList<V>() }
 list.add(valueTransform(element))
 }
 return destination
}

Groups values returned by the [valueTransform] function applied to each element of the original array by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.

@return The [destination] map.
@sample
samples.collections.Collections.Transformations.groupByKeyAndValues

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key) { ArrayList<V>() }
 list.add(valueTransform(element))
 }
 return destination
}

Creates a [Grouping] source from an array to be used later with one of group-and-fold operations using the specified [keySelector] function to extract a key from each element.

@sample
samples.collections.Grouping.groupingByEachCount

@SinceKotlin("1.1")
public inline fun <T, K> Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
 return object : Grouping<T, K> {
 override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()
 override fun keyOf(element: T): K = keySelector(element)
 }
}

Returns a list containing the results of applying the given [transform] function to each element in the original array.

@sample
samples.collections.Collections.Transformations.map

public inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

Returns a list containing the results of applying the given [transform] function to each element in the original array.

@sample
samples.collections.Collections.Transformations.map

public inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

Returns a list containing the results of applying the given [transform] function to each element in the original array.

@sample
samples.collections.Collections.Transformations.map

public inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

Returns a list containing the results of applying the given [transform] function to each element in the original array.

@sample
samples.collections.Collections.Transformations.map

public inline fun <R> IntArray.map(transform: (Int) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

Returns a list containing the results of applying the given [transform] function to each element in the original array.

@sample
samples.collections.Collections.Transformations.map

public inline fun <R> LongArray.map(transform: (Long) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

Returns a list containing the results of applying the given [transform] function to each element in the original array.

@sample
samples.collections.Collections.Transformations.map

public inline fun <R> FloatArray.map(transform: (Float) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

Returns a list containing the results of applying the given [transform] function to each element in the original array.

@sample
samples.collections.Collections.Transformations.map

public inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

Returns a list containing the results of applying the given [transform] function to each element in the original array.

@sample
samples.collections.Collections.Transformations.map

public inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

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@sample samples.collections.Collections.Transformations.map\n *\npublic inline fun <R>
CharArray.map(transform: (Char) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element and its index in
the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n *\npublic inline fun <T, R> Array<out
T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element and its index in the original array.\n * @param [transform] function that takes the index of an element and
the element itself\n * and returns the result of the transform applied to the element.\n *\npublic inline fun <R>
ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n *\npublic inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying
the given [transform] function\n * to each element and its index in the original array.\n * @param [transform]
function that takes the index of an element and the element itself\n * and returns the result of the transform applied
to the element.\n *\npublic inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying
the given [transform] function\n * to each element and its index in the original array.\n * @param [transform]
function that takes the index of an element and the element itself\n * and returns the result of the transform applied
to the element.\n *\npublic inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of
applying the given [transform] function\n * to each element and its index in the original array.\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n *\npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -
> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing
the results of applying the given [transform] function\n * to each element and its index in the original array.\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n *\npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int,
Double) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list
containing the results of applying the given [transform] function\n * to each element and its index in the original
array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the
result of the transform applied to the element.\n *\npublic inline fun <R> BooleanArray.mapIndexed(transform:
(index: Int, Boolean) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element and its index in
the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n *\npublic inline fun <R>
CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of
applying the given [transform] function\n * to each element and its index in the original array.\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n *\npublic inline fun <T, R : Any> Array<out
T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original array\n * and appends only the non-null results to the given [destination].\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n *\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out

```

`T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C` {  
`forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }`  
`return destination`  
`}` Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].  
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.  
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {  
`var index = 0`  
`for (item in this)`  
`destination.add(transform(index++, item))`  
`return destination`  
`}` Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].  
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.  
public inline fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {  
`var index = 0`  
`for (item in this)`  
`destination.add(transform(index++, item))`  
`return destination`  
`}` Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].  
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.  
public inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {  
`var index = 0`  
`for (item in this)`  
`destination.add(transform(index++, item))`  
`return destination`  
`}` Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].  
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.  
public inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {  
`var index = 0`  
`for (item in this)`  
`destination.add(transform(index++, item))`  
`return destination`  
`}` Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].  
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.  
public inline fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {  
`var index = 0`  
`for (item in this)`  
`destination.add(transform(index++, item))`  
`return destination`  
`}` Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].  
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.  
public inline fun <R, C : MutableCollection<in R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {  
`var index = 0`  
`for (item in this)`  
`destination.add(transform(index++, item))`  
`return destination`  
`}` Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].  
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.  
public inline fun <R, C : MutableCollection<in R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {  
`var index = 0`  
`for (item in this)`  
`destination.add(transform(index++, item))`  
`return destination`  
`}` Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].  
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.  
public inline fun <R, C : MutableCollection<in R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {  
`var index = 0`  
`for (item in this)`  
`destination.add(transform(index++, item))`  
`return destination`  
`}` Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].  
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.  
public inline fun <R, C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {  
`var index = 0`  
`for (item in this)`  
`destination.add(transform(index++, item))`  
`return destination`  
`}` Returns a list containing only the non-null results of applying the given [transform] function to each element in the original array.  
}

```

@sample samples.collections.Collections.Transformations.mapNotNull\n *^\npublic inline fun <T, R : Any>
Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original array\n * and
appends only the non-null results to the given [destination].\n *^\npublic inline fun <T, R : Any, C :
MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach {
element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*^\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) ->
R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the
given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n *^\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapTo(destination: C,
transform: (Byte) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n *^\npublic inline fun <R, C : MutableCollection<in R>>
ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n *^\npublic inline fun <R, C :
MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n *^\npublic inline fun <R, C :
MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n *^\npublic inline fun <R,
C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n for (item in
this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n *^\npublic
inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n for
(item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*^\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean)
-> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies
the given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n *^\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C,
transform: (Char) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return
destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an
[IndexValue] containing the index of that element and the element itself.\n *^\npublic fun <T> Array<out
T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a
lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that
element and the element itself.\n *^\npublic fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {\n return
IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n
* into an [IndexedValue] containing the index of that element and the element itself.\n *^\npublic fun
ShortArray.withIndex(): Iterable<IndexedValue<Short>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns
a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the
index of that element and the element itself.\n *^\npublic fun IntArray.withIndex(): Iterable<IndexedValue<Int>>
{\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the
original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n *^\npublic
fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n
* Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the

```

```

index of that element and the element itself.\n */\npublic fun FloatArray.withIndex():
Iterable<IndexedValue<Float>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n */\npublic fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {\n return
IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n
* into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun
BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {\n return IndexingIterable { iterator()
}\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue]
containing the index of that element and the element itself.\n */\npublic fun CharArray.withIndex():
Iterable<IndexedValue<Char>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing
only distinct elements from the given array.\n * \n * Among equal elements of the given array, only the first one will
be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun
<T> Array<out T>.distinct(): List<T> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list
containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same
order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun ByteArray.distinct():
List<Byte> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements
from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun
ShortArray.distinct(): List<Short> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing
only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun IntArray.distinct():
List<Int> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from
the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n
* \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun
LongArray.distinct(): List<Long> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing
only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun FloatArray.distinct():
List<Float> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements
from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun
DoubleArray.distinct(): List<Double> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list
containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same
order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun BooleanArray.distinct():
List<Boolean> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct
elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the
source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic
fun CharArray.distinct(): List<Char> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing
only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n *
Among elements of the given array with equal keys, only the first one will be present in the resulting list.\n * The
elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K> Array<out
T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\n for (e in
this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {
 val set = HashSet<K>()
 val list = ArrayList<Byte>()
 for (e in this) {
 val key = selector(e)
 if (set.add(key))
 list.add(e)
 }
 return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
ShortArray.distinctBy(selector: (Short) -> K): List<Short> {
 val set = HashSet<K>()
 val list = ArrayList<Short>()
 for (e in this) {
 val key = selector(e)
 if (set.add(key))
 list.add(e)
 }
 return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
IntArray.distinctBy(selector: (Int) -> K): List<Int> {
 val set = HashSet<K>()
 val list = ArrayList<Int>()
 for (e in this) {
 val key = selector(e)
 if (set.add(key))
 list.add(e)
 }
 return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
LongArray.distinctBy(selector: (Long) -> K): List<Long> {
 val set = HashSet<K>()
 val list = ArrayList<Long>()
 for (e in this) {
 val key = selector(e)
 if (set.add(key))
 list.add(e)
 }
 return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
FloatArray.distinctBy(selector: (Float) -> K): List<Float> {
 val set = HashSet<K>()
 val list = ArrayList<Float>()
 for (e in this) {
 val key = selector(e)
 if (set.add(key))
 list.add(e)
 }
 return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {
 val set = HashSet<K>()
 val list = ArrayList<Double>()
 for (e in this) {
 val key = selector(e)
 if (set.add(key))
 list.add(e)
 }
 return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {
 val set = HashSet<K>()
 val list = ArrayList<Boolean>()
 for (e in this) {
 val key = selector(e)
 if (set.add(key))
 list.add(e)
 }
 return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {
 val set = HashSet<K>()
 val list = ArrayList<Char>()
 for (e in this) {
 val key = selector(e)
 if (set.add(key))
 list.add(e)
 }
 return list
}

```

Returns a set containing all elements that are contained by both this array and the specified collection. The returned set preserves the element iteration order of the original array. To get a set

containing all elements that are contained at least in one of these collections use [union].

```

public infix fun <T>
Array<out T>.intersect(other: Iterable<T>): Set<T> {
 val set = this.toMutableSet()
 set.retainAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by both this array and the specified collection.  
 \* The returned set preserves the element iteration order of the original array.  
 \* To get a set containing all elements that are contained at least in one of these collections use [union].

```

public infix fun
ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {
 val set = this.toMutableSet()
 set.retainAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by both this array and the specified collection.  
 \* The returned set preserves the element iteration order of the original array.  
 \* To get a set containing all elements that are contained at least in one of these collections use [union].

```

public infix fun
ShortArray.intersect(other: Iterable<Short>): Set<Short> {
 val set = this.toMutableSet()
 set.retainAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by both this array and the specified collection.  
 \* The returned set preserves the element iteration order of the original array.  
 \* To get a set containing all elements that are contained at least in one of these collections use [union].

```

public infix fun
IntArray.intersect(other: Iterable<Int>): Set<Int> {
 val set = this.toMutableSet()
 set.retainAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by both this array and the specified collection.  
 \* The returned set preserves the element iteration order of the original array.  
 \* To get a set containing all elements that are contained at least in one of these collections use [union].

```

public infix fun
LongArray.intersect(other: Iterable<Long>): Set<Long> {
 val set =
this.toMutableSet()
 set.retainAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by both this array and the specified collection.  
 \* The returned set preserves the element iteration order of the original array.  
 \* To get a set containing all elements that are contained at least in one of these collections use [union].

```

public infix fun
FloatArray.intersect(other: Iterable<Float>): Set<Float> {
 val set =
this.toMutableSet()
 set.retainAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by both this array and the specified collection.  
 \* The returned set preserves the element iteration order of the original array.  
 \* To get a set containing all elements that are contained at least in one of these collections use [union].

```

public infix fun
DoubleArray.intersect(other: Iterable<Double>): Set<Double> {
 val set = this.toMutableSet()
 set.retainAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by both this array and the specified collection.  
 \* The returned set preserves the element iteration order of the original array.  
 \* To get a set containing all elements that are contained at least in one of these collections use [union].

```

public infix fun
BooleanArray.intersect(other: Iterable<Boolean>):
Set<Boolean> {
 val set = this.toMutableSet()
 set.retainAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by both this array and the specified collection.  
 \* The returned set preserves the element iteration order of the original array.  
 \* To get a set containing all elements that are contained at least in one of these collections use [union].

```

public infix fun
CharArray.intersect(other:
Iterable<Char>): Set<Char> {
 val set = this.toMutableSet()
 set.retainAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by this array and not contained by the specified collection.  
 \* The returned set preserves the element iteration order of the original array.

```

public infix fun <T>
Array<out T>.subtract(other: Iterable<T>): Set<T> {
 val set = this.toMutableSet()
 set.removeAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by this array and not contained by the specified collection.  
 \* The returned set preserves the element iteration order of the original array.

```

public infix fun
ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {
 val set = this.toMutableSet()
 set.removeAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by this array and not contained by the specified collection.  
 \* The returned set preserves the element iteration order of the original array.

```

public infix fun
ShortArray.subtract(other: Iterable<Short>): Set<Short> {
 val set =
this.toMutableSet()
 set.removeAll(other)
 return set
}

```

\* Returns a set containing all elements that are contained by this array and not contained by the specified collection.  
 \* The returned set preserves the element iteration order of the original array.

```

public infix fun
IntArray.subtract(other: Iterable<Int>): Set<Int>
{
 val set = this.toMutableSet()
 set.removeAll(other)
 return set
}

```

\* Returns a set containing all

elements that are contained by this array and not contained by the specified collection.

```

 * The returned set preserves the element iteration order of the original array.
 * ^\npublic infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {
 * \n val set = this.toMutableSet()
 * \n set.removeAll(other)
 * \n return set
 * \n}
 * Returns a set containing all elements that are contained by this array and not contained by the specified collection.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {
 * \n val set = this.toMutableSet()
 * \n set.removeAll(other)
 * \n return set
 * \n}
 * Returns a set containing all elements that are contained by this array and not contained by the specified collection.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {
 * \n val set = this.toMutableSet()
 * \n set.removeAll(other)
 * \n return set
 * \n}
 * Returns a set containing all elements that are contained by this array and not contained by the specified collection.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {
 * \n val set = this.toMutableSet()
 * \n set.removeAll(other)
 * \n return set
 * \n}
 * Returns a set containing all elements that are contained by this array and not contained by the specified collection.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> {
 * \n val set = this.toMutableSet()
 * \n set.removeAll(other)
 * \n return set
 * \n}
 * Returns a new [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic fun <T> Array<out T>.toMutableSet(): MutableSet<T> {
 * \n return toCollection(LinkedHashSet<T>(mapCapacity(size)))
 * \n}
 * Returns a new [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic fun ByteArray.toMutableSet(): MutableSet<Byte> {
 * \n return toCollection(LinkedHashSet<Byte>(mapCapacity(size)))
 * \n}
 * Returns a new [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {
 * \n return toCollection(LinkedHashSet<Short>(mapCapacity(size)))
 * \n}
 * Returns a new [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic fun IntArray.toMutableSet(): MutableSet<Int> {
 * \n return toCollection(LinkedHashSet<Int>(mapCapacity(size)))
 * \n}
 * Returns a new [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic fun LongArray.toMutableSet(): MutableSet<Long> {
 * \n return toCollection(LinkedHashSet<Long>(mapCapacity(size)))
 * \n}
 * Returns a new [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {
 * \n return toCollection(LinkedHashSet<Float>(mapCapacity(size)))
 * \n}
 * Returns a new [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {
 * \n return toCollection(LinkedHashSet<Double>(mapCapacity(size)))
 * \n}
 * Returns a new [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {
 * \n return toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
 * \n}
 * Returns a new [MutableSet] containing all distinct elements from the given array.
 * The returned set preserves the element iteration order of the original array.
 * ^\npublic fun CharArray.toMutableSet(): MutableSet<Char> {
 * \n return toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))
 * \n}
 * Returns a set containing all distinct elements from both collections.
 * The returned set preserves the element iteration order of the original array.
 * Those elements of the [other] collection that are unique are iterated in the end
 * in the order of the [other] collection.
 * To get a set containing all elements that are contained in both collections use [intersect].
 * ^\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {
 * \n val set = this.toMutableSet()
 * \n set.addAll(other)
 * \n return set
 * \n}
 * Returns a set containing all distinct elements

```



from both collections. The returned set preserves the element iteration order of the original array. Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection. To get a set containing all elements that are contained in both collections use [intersect].

```

public infix fun
ByteArray.union(other: Iterable<Byte>): Set<Byte> {
 val set = this.toMutableSet()
 set.addAll(other)
 return set
}

```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection. To get a set containing all elements that are contained in both collections use [intersect].

```

public infix fun
ShortArray.union(other:
Iterable<Short>): Set<Short> {
 val set = this.toMutableSet()
 set.addAll(other)
 return set
}

```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection. To get a set containing all elements that are contained in both collections use [intersect].

```

public infix fun
IntArray.union(other: Iterable<Int>): Set<Int> {
 val set =
this.toMutableSet()
 set.addAll(other)
 return set
}

```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection. To get a set containing all elements that are contained in both collections use [intersect].

```

public infix fun
LongArray.union(other: Iterable<Long>): Set<Long> {
 val set = this.toMutableSet()
 set.addAll(other)
 return set
}

```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection. To get a set containing all elements that are contained in both collections use [intersect].

```

public infix fun
FloatArray.union(other: Iterable<Float>):
Set<Float> {
 val set = this.toMutableSet()
 set.addAll(other)
 return set
}

```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection. To get a set containing all elements that are contained in both collections use [intersect].

```

public infix fun
DoubleArray.union(other: Iterable<Double>):
Set<Double> {
 val set =
this.toMutableSet()
 set.addAll(other)
 return set
}

```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection. To get a set containing all elements that are contained in both collections use [intersect].

```

public infix fun
BooleanArray.union(other: Iterable<Boolean>):
Set<Boolean> {
 val set = this.toMutableSet()
 set.addAll(other)
 return set
}

```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection. To get a set containing all elements that are contained in both collections use [intersect].

```

public infix fun
CharArray.union(other: Iterable<Char>): Set<Char> {
 val set = this.toMutableSet()
 set.addAll(other)
 return set
}

```

Returns true if all elements match the given [predicate].

```

@sample
samples.collections.Collections.Aggregates.all
public inline fun <T> Array<out T>.all(predicate: (T) ->
Boolean): Boolean {
 for (element in this) if (!predicate(element)) return false
 return true
}

```

Returns true if all elements match the given [predicate].

```

@sample
samples.collections.Collections.Aggregates.all
public inline fun ByteArray.all(predicate: (Byte) -> Boolean):
Boolean {
 for (element in this) if (!predicate(element)) return false
 return true
}

```

Returns true if all elements match the given [predicate].

```

@sample
samples.collections.Collections.Aggregates.all
public inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {
 for (element in this) if
(!predicate(element)) return false
 return true
}

```

Returns true if all elements match the given [predicate].

```

@sample
samples.collections.Collections.Aggregates.all
public inline fun
IntArray.all(predicate: (Int) -> Boolean): Boolean {
 for (element in this) if (!predicate(element)) return false

```

```

return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun LongArray.all(predicate: (Long) -> Boolean):
Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if
all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*/\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {\n for (element in this) if
(!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun
DoubleArray.all(predicate: (Double) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun BooleanArray.all(predicate: (Boolean) ->
Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n *
Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharArray.all(predicate: (Char) -> Boolean):
Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if
array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun
<T> Array<out T>.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ByteArray.any():
Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun ShortArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun IntArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun LongArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun FloatArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun DoubleArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun BooleanArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun CharArray.any(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Array<out
T>.any(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ByteArray.any(predicate:
(Byte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ShortArray.any(predicate:
(Short) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun IntArray.any(predicate: (Int) -
> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n *
Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun LongArray.any(predicate:
(Long) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun FloatArray.any(predicate:

```

(Float) -> Boolean): Boolean { \n for (element in this) if (predicate(element)) return true \n return false \n } \n \n \* Returns `true` if at least one element matches the given [predicate]. \n \* \n \* @sample samples.collections.Collections.Aggregates.anyWithPredicate \n \* \n public inline fun DoubleArray.any(predicate: (Double) -> Boolean): Boolean { \n for (element in this) if (predicate(element)) return true \n return false \n } \n \n \* Returns `true` if at least one element matches the given [predicate]. \n \* \n \* @sample samples.collections.Collections.Aggregates.anyWithPredicate \n \* \n public inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean { \n for (element in this) if (predicate(element)) return true \n return false \n } \n \n \* Returns `true` if at least one element matches the given [predicate]. \n \* \n \* @sample samples.collections.Collections.Aggregates.anyWithPredicate \n \* \n public inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean { \n for (element in this) if (predicate(element)) return true \n return false \n } \n \n \* Returns the number of elements in this array. \n \* \n @kotlin.internal.InlineOnly \n public inline fun <T> Array<out T>.count(): Int { \n return size \n } \n \n \* Returns the number of elements in this array. \n \* \n @kotlin.internal.InlineOnly \n public inline fun ByteArray.count(): Int { \n return size \n } \n \n \* Returns the number of elements in this array. \n \* \n @kotlin.internal.InlineOnly \n public inline fun ShortArray.count(): Int { \n return size \n } \n \n \* Returns the number of elements in this array. \n \* \n @kotlin.internal.InlineOnly \n public inline fun IntArray.count(): Int { \n return size \n } \n \n \* Returns the number of elements in this array. \n \* \n @kotlin.internal.InlineOnly \n public inline fun LongArray.count(): Int { \n return size \n } \n \n \* Returns the number of elements in this array. \n \* \n @kotlin.internal.InlineOnly \n public inline fun FloatArray.count(): Int { \n return size \n } \n \n \* Returns the number of elements in this array. \n \* \n @kotlin.internal.InlineOnly \n public inline fun DoubleArray.count(): Int { \n return size \n } \n \n \* Returns the number of elements in this array. \n \* \n @kotlin.internal.InlineOnly \n public inline fun BooleanArray.count(): Int { \n return size \n } \n \n \* Returns the number of elements in this array. \n \* \n @kotlin.internal.InlineOnly \n public inline fun CharArray.count(): Int { \n return size \n } \n \n \* Returns the number of elements matching the given [predicate]. \n \* \n public inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int { \n var count = 0 \n for (element in this) if (predicate(element)) ++count \n return count \n } \n \n \* Returns the number of elements matching the given [predicate]. \n \* \n public inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int { \n var count = 0 \n for (element in this) if (predicate(element)) ++count \n return count \n } \n \n \* Returns the number of elements matching the given [predicate]. \n \* \n public inline fun ShortArray.count(predicate: (Short) -> Boolean): Int { \n var count = 0 \n for (element in this) if (predicate(element)) ++count \n return count \n } \n \n \* Returns the number of elements matching the given [predicate]. \n \* \n public inline fun IntArray.count(predicate: (Int) -> Boolean): Int { \n var count = 0 \n for (element in this) if (predicate(element)) ++count \n return count \n } \n \n \* Returns the number of elements matching the given [predicate]. \n \* \n public inline fun LongArray.count(predicate: (Long) -> Boolean): Int { \n var count = 0 \n for (element in this) if (predicate(element)) ++count \n return count \n } \n \n \* Returns the number of elements matching the given [predicate]. \n \* \n public inline fun FloatArray.count(predicate: (Float) -> Boolean): Int { \n var count = 0 \n for (element in this) if (predicate(element)) ++count \n return count \n } \n \n \* Returns the number of elements matching the given [predicate]. \n \* \n public inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int { \n var count = 0 \n for (element in this) if (predicate(element)) ++count \n return count \n } \n \n \* Returns the number of elements matching the given [predicate]. \n \* \n public inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int { \n var count = 0 \n for (element in this) if (predicate(element)) ++count \n return count \n } \n \n \* Returns the number of elements matching the given [predicate]. \n \* \n public inline fun CharArray.count(predicate: (Char) -> Boolean): Int { \n var count = 0 \n for (element in this) if (predicate(element)) ++count \n return count \n } \n \n \* Accumulates value starting with [initial] value and applying [operation] from left to right \n \* to current accumulator value and each element. \n \* \n \* Returns the specified [initial] value if the array is empty. \n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. \n \* \n public inline fun <T, R> Array<out T>.fold(initial: R, operation: (acc: R, T) -> R): R { \n var accumulator = initial \n for (element in this) accumulator = operation(accumulator, element) \n return accumulator \n } \n \n \* Accumulates value starting

```

with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R>
ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}

 * Accumulates value starting
with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R>
ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}

 * Accumulates value starting
with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R>
IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}

 * Accumulates value starting
with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R>
LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}

 * Accumulates value starting
with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R>
FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}

 * Accumulates value starting
with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R>
DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}

 * Accumulates value
starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each
element.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun
<R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}

 * Accumulates
value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and
each element.
 * Returns the specified [initial] value if the array is empty.
 * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
public inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {
 var accumulator =
initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}

 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator
value and each element with its index in the original array.
 * Returns the specified [initial] value if the array is
empty.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and
the element itself, and calculates the next accumulator value.
 */
public inline fun <T, R> Array<out
T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
 var index = 0
 var accumulator =
initial
 for (element in this)
 accumulator = operation(index++, accumulator, element)
 return
accumulator
}

 * Accumulates value starting with [initial] value and applying [operation] from left to
right
 * to current accumulator value and each element with its index in the original array.
 * Returns the

```



applying [operation] from right to left to each element and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

public inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {
 var index = lastIndex
 var accumulator = initial
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value. Returns the specified [initial] value if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

public inline fun <R> CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {
 var index = lastIndex
 var accumulator =

```

```

initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R
{\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator =
operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the
original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n *
\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator
value, and calculates the next accumulator value.\n */\n\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R,
operation: (index: Int, Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while
(index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n\npublic inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n
var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index,
get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, the element itself\n * and current accumulator value, and
calculates the next accumulator value.\n */\n\npublic inline fun <R> IntArray.foldRightIndexed(initial: R, operation:
(index: Int, Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n
 accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array
is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current
accumulator value, and calculates the next accumulator value.\n */\n\npublic inline fun <R>
LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {\n var index = lastIndex\n
var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n
 --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
value.\n */\n\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) ->
R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator =
operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the
original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n *
\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator
value, and calculates the next accumulator value.\n */\n\npublic inline fun <R> DoubleArray.foldRightIndexed(initial:
R, operation: (index: Int, Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while
(index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the

```

specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n

```

*^/npublic inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {
 \n var index = lastIndex
 \n var accumulator = initial
 \n while (index >= 0) {
 \n accumulator =
 \n operation(index, get(index), accumulator)
 \n --index
 \n }
 \n return accumulator
}

```

\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n

```

*^/npublic inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {
 \n var index = lastIndex
 \n var accumulator = initial
 \n while (index >= 0) {
 \n accumulator = operation(index, get(index), accumulator)
 \n --index
 \n }
 \n return accumulator
}

```

\n \* Performs the given [action] on each element.\n

```

*^/npublic inline fun <T> Array<out T>.forEach(action: (T) -> Unit): Unit {
 \n for (element in this) action(element)
}

```

\n \* Performs the given [action] on each element.\n

```

*^/npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {
 \n for (element in this) action(element)
}

```

\n \* Performs the given [action] on each element.\n

```

*^/npublic inline fun ShortArray.forEach(action: (Short) -> Unit): Unit {
 \n for (element in this) action(element)
}

```

\n \* Performs the given [action] on each element.\n

```

*^/npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {
 \n for (element in this) action(element)
}

```

\n \* Performs the given [action] on each element.\n

```

*^/npublic inline fun LongArray.forEach(action: (Long) -> Unit): Unit {
 \n for (element in this) action(element)
}

```

\n \* Performs the given [action] on each element.\n

```

*^/npublic inline fun FloatArray.forEach(action: (Float) -> Unit): Unit {
 \n for (element in this) action(element)
}

```

\n \* Performs the given [action] on each element.\n

```

*^/npublic inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {
 \n for (element in this) action(element)
}

```

\n \* Performs the given [action] on each element.\n

```

*^/npublic inline fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {
 \n for (element in this) action(element)
}

```

\n \* Performs the given [action] on each element.\n

```

*^/npublic inline fun CharArray.forEach(action: (Char) -> Unit): Unit {
 \n for (element in this)
 \n action(element)
}

```

\n \* Performs the given [action] on each element, providing sequential index with the element.\n \* @param [action] function that takes the index of an element and the element itself\n \* and performs the action on the element.\n

```

*^/npublic inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
 \n var index = 0
 \n for (item in this) action(index++, item)
}

```

\n \* Performs the given [action] on each element, providing sequential index with the element.\n \* @param [action] function that takes the index of an element and the element itself\n \* and performs the action on the element.\n

```

*^/npublic inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {
 \n var index = 0
 \n for (item in this)
 \n action(index++, item)
}

```

\n \* Performs the given [action] on each element, providing sequential index with the element.\n \* @param [action] function that takes the index of an element and the element itself\n \* and performs the action on the element.\n

```

*^/npublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {
 \n var index = 0
 \n for (item in this)
 \n action(index++, item)
}

```

\n \* Performs the given [action] on each element, providing sequential index with the element.\n \* @param [action] function that takes the index of an element and the element itself\n \* and performs the action on the element.\n

```

*^/npublic inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {
 \n var index = 0
 \n for (item in this)
 \n action(index++, item)
}

```

\n \* Performs the given [action] on each element, providing sequential index with the element.\n \* @param [action] function that takes the index of an element and the element itself\n \* and performs the action on the element.\n

```

*^/npublic inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {
 \n var index = 0
 \n for (item in this)
 \n action(index++, item)
}

```

\n \* Performs the given [action] on each element, providing sequential index with the element.\n \* @param [action] function that takes the index of an element and the element itself\n \* and performs the action on the element.\n

```

*^/npublic inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {
 \n var index = 0
 \n for (item in this)
 \n action(index++, item)
}

```

\n \* Performs the given [action] on each element, providing sequential index with the element.\n \* @param [action] function that takes the index of an element and the element itself\n \* and performs



```

the action on the element.\n */\npublic inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit):
Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit
{\n var index = 0\n for (item in this) action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.1")\npublic fun Array<out Double>.max(): Double? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.1")\npublic fun Array<out Float>.max(): Float? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun <T :
Comparable<T>> Array<out T>.max(): T? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull
instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
ByteArray.max(): Byte? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
ShortArray.max(): Short? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
IntArray.max(): Int? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
LongArray.max(): Long? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
FloatArray.max(): Float? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
DoubleArray.max(): Double? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
CharArray.max(): Char? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R): Short? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R): Long? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R): Float? {\n return

```

```

maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.\",
ReplaceWith("this.maxByOrNull(selector)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.\",
ReplaceWith("this.maxByOrNull(selector)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.\",
ReplaceWith("this.maxByOrNull(selector)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R): Char? {\n return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxByOrNull(selector: (T) ->
R): T? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex
== 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n
val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return
maxElem}\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) ->
R): Byte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n
return maxElem}\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> ShortArray.maxByOrNull(selector: (Short) ->
R): Short? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n
return maxElem}\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R):
Int? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex ==
0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val
v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return
maxElem}\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> LongArray.maxByOrNull(selector: (Long) ->
R): Long? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n
return maxElem}\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> FloatArray.maxByOrNull(selector: (Float) ->
R): Float? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n
return maxElem}\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> DoubleArray.maxByOrNull(selector: (Double)

```

```

-> R): Double? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> BooleanArray.maxByOrNull(selector:
(Boolean) -> R): Boolean? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex =
this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in
1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n
maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value
of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> CharArray.maxByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the largest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Double):
Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out\nT>.maxOf(selector: (T) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue =\n selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the array.\n * @throws NoSuchElementException if the\n * array is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nByteArray.maxOf(selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * @throws\n * NoSuchElementException if the array is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nShortArray.maxOf(selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * @throws\n * NoSuchElementException if the array is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nIntArray.maxOf(selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue =\n selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the array.\n * @throws NoSuchElementException if the\n * array is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nLongArray.maxOf(selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * @throws\n * NoSuchElementException if the array is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nFloatArray.maxOf(selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * @throws\n * NoSuchElementException if the array is empty.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nDoubleArray.maxOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * @throws\n * NoSuchElementException if the array is empty.\n */
```

NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
BooleanArray.maxOf(selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * @throws
```

NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
CharArray.maxOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector:
```

```
(T) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in\n 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) ->
```

```
Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns\n * the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -
```

```
> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)\n {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array\n * or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned\n * result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(selector: (Int) ->
```

```
Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns\n * the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(selector: (Long) -
```

```
> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)\n {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array
```

or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOrNull(selector: (Double) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector: (Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOrNull(selector: (Char) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOrNull(selector: (T) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOrNull(selector: (Byte) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOrNull(selector: (Short) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns
```



the largest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOrNull(selector: (Int) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOrNull(selector: (Long) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOrNull(selector: (Double) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector: (Boolean) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOrNull(selector: (Char) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxOrNull(selector: (T) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n}
```

```

return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.maxOrNull(selector: (Byte) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.maxOrNull(selector: (Short) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.maxOrNull(selector: (Int) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.maxOrNull(selector: (Long) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.maxOrNull(selector: (Float) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOrNull(selector: (Double) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOrNull(selector: (Boolean) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.maxOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n

```

```

maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.maxOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.maxOfWith(comparator:
Comparator<in R>, selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.maxOfWith(comparator:
Comparator<in R>, selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.maxOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.maxOfWith(comparator:

```

```

Comparator<in R>, selector: (Double) -> R): R {
 if (isEmpty()) throw NoSuchElementException()
 var
 maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if
 (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return maxValue
}

Returns the largest value according to the provided [comparator]
among all values produced by [selector]
function applied to each element in the array.
@throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> BooleanArray.maxOfWith(comparator:
Comparator<in R>, selector: (Boolean) -> R): R {
 if (isEmpty()) throw NoSuchElementException()
 var
 maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if
 (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return maxValue
}

Returns the largest value according to the provided [comparator]
among all values produced by [selector]
function applied to each element in the array.
@throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> CharArray.maxOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {
 if (isEmpty()) throw NoSuchElementException()
 var
 maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if
 (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return maxValue
}

Returns the largest value according to the provided [comparator]
among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out
T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
 if (isEmpty()) return null
 var
 maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if
 (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return maxValue
}

Returns the largest value according to the provided [comparator]
among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R>
ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {
 if (isEmpty()) return
 null
 var
 maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if
 (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return maxValue
}

Returns the largest value according to the provided [comparator]
among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R>
ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {
 if (isEmpty())
 return null
 var
 maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if
 (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return maxValue
}

Returns the largest value according to the provided [comparator]
among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R>
IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {
 if (isEmpty()) return
 null
 var
 maxValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 if
 (comparator.compare(maxValue, v) < 0) {
 maxValue = v
 }
 }
 return maxValue
}

Returns the largest value according to the provided [comparator]
among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n if (isEmpty())
return null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return max\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n if (isEmpty())
return null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return max\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n if (isEmpty())
return null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return max\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return max\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) return
null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*/\n@SinceKotlin("1.4")\npublic fun Array<out Double>.maxOrNull(): Double? {\n if (isEmpty()) return null\n
var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return
max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`
returns `NaN`.\n
*/\n@SinceKotlin("1.4")\npublic fun Array<out Float>.maxOrNull(): Float? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.maxOrNull(): T? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun ByteArray.maxOrNull(): Byte? {\n if (isEmpty()) return null\n var max =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun ShortArray.maxOrNull(): Short? {\n if (isEmpty()) return null\n var max =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun IntArray.maxOrNull(): Int? {\n if (isEmpty())

```

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return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\nreturn max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun LongArray.maxOrNull(): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n\n@SinceKotlin("1.4")\npublic fun FloatArray.maxOrNull(): Float? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n\n@SinceKotlin("1.4")\npublic fun DoubleArray.maxOrNull(): Double? {\n if (isEmpty())\nreturn null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun CharArray.maxOrNull(): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun <T> Array<out T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun ByteArray.maxWithOrNull(comparator: Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the

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first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ShortArray.maxWithOrNull(comparator: Comparator<in Short>): Short? {\n
if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.maxWithOrNull(comparator: Comparator<in Long>): Long? {\n
if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {\n
if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>):
Double? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>):
Boolean? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n
if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.1")\npublic fun Array<out Double>.min(): Double? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.1")\npublic fun Array<out Float>.min(): Float? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun <T :
Comparable<T>> Array<out T>.min(): T? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull
instead.", ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
ByteArray.min(): Byte? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
ShortArray.min(): Short? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun IntArray.min():
Int? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
LongArray.min(): Long? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
FloatArray.min(): Float? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
DoubleArray.min(): Double? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",

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ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic fun
CharArray.min(): Char? {\n return minOrNull()\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic inline
fun <T, R : Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T? {\n return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic inline
fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte? {\n return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic inline
fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R): Short? {\n return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic inline
fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int? {\n return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic inline
fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long? {\n return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic inline
fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float? {\n return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic inline
fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) -> R): Double? {\n return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic inline
fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\n return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\")\npublic inline
fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R): Char? {\n return
minByOrNull(selector)\n}\n\n**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Array<out T>.minByOrNull(selector: (T) ->
R): T? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex
== 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n
val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return
minElem\n}\n\n**\n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> ByteArray.minByOrNull(selector: (Byte) ->
R): Byte? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n
}\n return minElem\n}\n\n**\n * Returns the first element yielding the smallest value of the given function or
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*\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> ShortArray.minByOrNull(selector: (Short) ->
R): Short? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n
}\n return minElem\n}\n\n**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n

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*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R):
Int? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex ==
0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val
v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return
minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> LongArray.minByOrNull(selector: (Long) ->
R): Long? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n
return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> FloatArray.minByOrNull(selector: (Float) ->
R): Float? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n
return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> DoubleArray.minByOrNull(selector: (Double)
-> R): Double? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n
return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> BooleanArray.minByOrNull(selector:
(Boolean) -> R): Boolean? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex =
this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in
1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n
minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value
of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> CharArray.minByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for

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(i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n } return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) ->

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Double): Double {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in 1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return
 minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.minOf(selector: (T) ->
Float): Float {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in
1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return
 minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.minOf(selector: (Byte) -> Float):
Float {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in
1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return
 minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.minOf(selector: (Short) ->
Float): Float {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in
1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return
 minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.minOf(selector: (Int) -> Float):
Float {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in
1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return
 minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun LongArray.minOf(selector: (Long) ->
Float): Float {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in
1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return
 minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun FloatArray.minOf(selector: (Float) -> Float):
Float {
 if (isEmpty()) throw NoSuchElementException()
 var minValue = selector(this[0])
 for (i in
1..lastIndex) {
 val v = selector(this[i])
 minValue = minOf(minValue, v)
 }
 return
 minValue
}

/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the array.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minOf(selector: (T) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.minOf(selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.minOf(selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOf(selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.minOf(selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.minOf(selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOf(selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.minOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector:
(T) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) ->
Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
 val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n

```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOfOrNull(selector: (Int) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOfOrNull(selector: (Long) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(selector: (Float) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOfOrNull(selector: (Double) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOfOrNull(selector: (Char) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
```

```
`NaN`.\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOrNull(selector: (T) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned\n * result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOrNull(selector: (Byte) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned\n * result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOrNull(selector: (Short) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned\n * result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOrNull(selector: (Int) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned\n * result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOrNull(selector: (Long) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned\n * result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOrNull(selector: (Float) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned\n * result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOrNull(selector: (Double) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
```

each element in the array or `null` if there are no elements. \n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`. \n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOfOrNull(selector:\n(Boolean) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in\n1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return\nminValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`. \n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOfOrNull(selector: (Char) ->\nFloat): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the\n * smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if\n * there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out\nT>.minOfOrNull(selector: (T) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for\n(i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return\nminValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * \n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nByteArray.minOfOrNull(selector: (Byte) -> R): R? {\n if (isEmpty()) return null\n var minValue =\nselector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return\nminValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nLongArray.minOfOrNull(selector: (Long) -> R): R? {\n if (isEmpty()) return null\n var minValue =\nselector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return\nminValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\nFloatArray.minOfOrNull(selector: (Float) -> R): R? {\n if (isEmpty()) return null\n var minValue =
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selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOfOrNull(selector: (Double) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOfOrNull(selector: (Boolean) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.minOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.minOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.minOfWith(comparator:
Comparator<in R>, selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue,

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v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value\n * according to the provided [comparator]\n * among all values produced by [selector] function applied to each\n * element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWith(comparator:\nComparator<in R>, selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWith(comparator:\nComparator<in R>, selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.minOfWith(comparator:\nComparator<in R>, selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.minOfWith(comparator:\nComparator<in R>, selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.minOfWith(comparator:\nComparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out\nT>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n if (isEmpty()) return null\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n * function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n if (isEmpty()) return

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null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/*\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>

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CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) return\n null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\nReturns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n\n*\n@SinceKotlin("1.4")\npublic fun Array<out Double>.minOrNull(): Double? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return\n min\n}\n\nReturns the smallest element or `null` if there are no elements.\n * \n * If any of elements is\n `NaN` returns `NaN`.\n\n*\n@SinceKotlin("1.4")\npublic fun Array<out Float>.minOrNull(): Float? {\n if\n (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min,\n e)\n }\n return min\n}\n\nReturns the smallest element or `null` if there are no elements.\n\n*\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.minOrNull(): T? {\n if (isEmpty())\n return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\nReturns the smallest element or `null` if there are no elements.\n\n*\n@SinceKotlin("1.4")\npublic fun ByteArray.minOrNull(): Byte? {\n if (isEmpty()) return null\n var min =\n this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\nReturns the smallest element or `null` if there are no elements.\n\n*\n@SinceKotlin("1.4")\npublic fun\n ShortArray.minOrNull(): Short? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\nReturns the smallest element or `null` if\n there are no elements.\n\n*\n@SinceKotlin("1.4")\npublic fun IntArray.minOrNull(): Int? {\n if (isEmpty())\n return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\nReturns the smallest element or `null` if there are no elements.\n\n*\n@SinceKotlin("1.4")\npublic fun LongArray.minOrNull(): Long? {\n if (isEmpty()) return null\n var min =\n this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\nReturns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n\n*\n@SinceKotlin("1.4")\npublic fun FloatArray.minOrNull(): Float? {\n if (isEmpty()) return null\n var min =\n this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return min\n}\n\nReturns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n\n*\n@SinceKotlin("1.4")\npublic fun DoubleArray.minOrNull(): Double? {\n if (isEmpty()) return null\n var\n min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return\n min\n}\n\nReturns the smallest element or `null` if there are no elements.\n\n*\n@SinceKotlin("1.4")\npublic fun CharArray.minOrNull(): Char? {\n if (isEmpty()) return null\n var min =\n this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return\n min\n}\n\n@Deprecated("Use minWithOrNull instead.")\n ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun\n <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n return\n minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun\n ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n return\n minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun\n ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n return\n minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun\n IntArray.minWith(comparator: Comparator<in Int>): Int? {\n return\n minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun\n LongArray.minWith(comparator: Comparator<in Long>): Long? {\n return\n minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n
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ReplaceWith("\this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("\this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
DoubleArray.minWith(comparator: Comparator<in Double>): Double? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("\this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("\this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
CharArray.minWith(comparator: Comparator<in Char>): Char? {\n return
minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the
provided [comparator] or `null` if there are no elements.\n * \n@SinceKotlin("1.4")\npublic fun <T> Array<out
T>.minWithOrNull(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var min = this[0]\n for
(i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return
min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or
`null` if there are no elements.\n * \n@SinceKotlin("1.4")\npublic fun ByteArray.minWithOrNull(comparator:
Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
 * \n@SinceKotlin("1.4")\npublic fun ShortArray.minWithOrNull(comparator: Comparator<in Short>): Short? {\n
if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
 * \n@SinceKotlin("1.4")\npublic fun IntArray.minWithOrNull(comparator: Comparator<in Int>): Int? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
 * \n@SinceKotlin("1.4")\npublic fun LongArray.minWithOrNull(comparator: Comparator<in Long>): Long? {\n
if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
 * \n@SinceKotlin("1.4")\npublic fun FloatArray.minWithOrNull(comparator: Comparator<in Float>): Float? {\n
if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
 * \n@SinceKotlin("1.4")\npublic fun DoubleArray.minWithOrNull(comparator: Comparator<in Double>):
Double? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
 * \n@SinceKotlin("1.4")\npublic fun BooleanArray.minWithOrNull(comparator: Comparator<in Boolean>):
Boolean? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
 * \n@SinceKotlin("1.4")\npublic fun CharArray.minWithOrNull(comparator: Comparator<in Char>): Char? {\n
if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the array has no
elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n * \n@SinceKotlin("1.4")\npublic fun <T> Array<out

```

```

T>.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n */\npublic fun ByteArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun ShortArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun IntArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun LongArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun FloatArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun DoubleArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun BooleanArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun CharArray.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Array<out
T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ByteArray.none(predicate:
(Byte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ShortArray.none(predicate:
(Short) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun IntArray.none(predicate: (Int)
-> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n *
Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun LongArray.none(predicate:
(Long) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun FloatArray.none(predicate:
(Float) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun DoubleArray.none(predicate:
(Double) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun
BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if (predicate(element))
return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharArray.none(predicate:
(Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return
true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEach(action: (T) ->
Unit): Array<out T> {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEach(action: (Byte) ->

```

```

Unit): ByteArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEach(action: (Short) ->
Unit): ShortArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEach(action: (Int) -> Unit):
IntArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on
each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.onEach(action: (Long) ->
Unit): LongArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEach(action: (Float) ->
Unit): FloatArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEach(action: (Double) ->
Unit): DoubleArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEach(action: (Boolean)
-> Unit): BooleanArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.onEach(action: (Char) ->
Unit): CharArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n *
@param [action] function that takes the index of an element and the element itself\n * and performs the action on
the element.\n *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.onEachIndexed(action: (index: Int, T) -> Unit): Array<out T> {\n return apply { forEachIndexed(action)
}\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and
returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.onEachIndexed(action: (index: Int, Byte) -> Unit): ByteArray {\n return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEachIndexed(action:
(index: Int, Short) -> Unit): ShortArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the
given [action] on each element, providing sequential index with the element,\n * and returns the array itself
afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.onEachIndexed(action: (index: Int, Int) -> Unit): IntArray {\n return apply { forEachIndexed(action)
}\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and
returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.onEachIndexed(action: (index: Int, Long) -> Unit): LongArray {\n return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEachIndexed(action:
(index: Int, Float) -> Unit): FloatArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the

```

given [action] on each element, providing sequential index with the element, \n \* and returns the array itself afterwards. \n \* @param [action] function that takes the index of an element and the element itself \n \* and performs the action on the element. \n \*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEachIndexed(action: (index: Int, Double) -> Unit): DoubleArray {\n return apply { forEachIndexed(action) }\n}\n/>\n \* Performs the given [action] on each element, providing sequential index with the element, \n \* and returns the array itself afterwards. \n \* @param [action] function that takes the index of an element and the element itself \n \* and performs the action on the element. \n \*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {\n return apply { forEachIndexed(action) }\n}\n/>\n \* Performs the given [action] on each element, providing sequential index with the element, \n \* and returns the array itself afterwards. \n \* @param [action] function that takes the index of an element and the element itself \n \* and performs the action on the element. \n \*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.onEachIndexed(action: (index: Int, Char) -> Unit): CharArray {\n return apply { forEachIndexed(action) }\n}\n/>\n \* Accumulates value starting with the first element and applying [operation] from left to right \n \* to current accumulator value and each element. \n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way, \n \* please use [reduceOrNull] instead. It returns `null` when its receiver is empty. \n \* \n \* @param [operation] function that takes current accumulator value and an element, \n \* and calculates the next accumulator value. \n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \*/\npublic inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n/>\n \* Accumulates value starting with the first element and applying [operation] from left to right \n \* to current accumulator value and each element. \n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way, \n \* please use [reduceOrNull] instead. It returns `null` when its receiver is empty. \n \* \n \* @param [operation] function that takes current accumulator value and an element, \n \* and calculates the next accumulator value. \n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \*/\npublic inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n/>\n \* Accumulates value starting with the first element and applying [operation] from left to right \n \* to current accumulator value and each element. \n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way, \n \* please use [reduceOrNull] instead. It returns `null` when its receiver is empty. \n \* \n \* @param [operation] function that takes current accumulator value and an element, \n \* and calculates the next accumulator value. \n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \*/\npublic inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n/>\n \* Accumulates value starting with the first element and applying [operation] from left to right \n \* to current accumulator value and each element. \n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way, \n \* please use [reduceOrNull] instead. It returns `null` when its receiver is empty. \n \* \n \* @param [operation] function that takes current accumulator value and an element, \n \* and calculates the next accumulator value. \n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \*/\npublic inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n/>\n \* Accumulates value starting with the first element and applying [operation] from left to right \n \* to current accumulator value and each element. \n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way, \n \* please use [reduceOrNull] instead. It returns `null` when its receiver is empty. \n \* \n \* @param [operation] function that takes current accumulator value and an element, \n \* and calculates the next accumulator value. \n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \*/\npublic inline fun



@param [operation] function that takes current accumulator value and an element,  
 accumulator value.  
 @sample samples.collections.Collections.Aggregates.reduce  
 public inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {  
 if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
 }  
 Accumulates value starting with the first element and applying [operation] from left to right  
 to current accumulator value and each element.  
 Throws an exception if this array is empty. If the array can be empty in an expected way,  
 please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes current accumulator value and an element,  
 accumulator value.  
 @sample samples.collections.Collections.Aggregates.reduce  
 public inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {  
 if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
 }  
 Accumulates value starting with the first element and applying [operation] from left to right  
 to current accumulator value and each element.  
 Throws an exception if this array is empty. If the array can be empty in an expected way,  
 please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes current accumulator value and an element,  
 accumulator value.  
 @sample samples.collections.Collections.Aggregates.reduce  
 public inline fun DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {  
 if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
 }  
 Accumulates value starting with the first element and applying [operation] from left to right  
 to current accumulator value and each element.  
 Throws an exception if this array is empty. If the array can be empty in an expected way,  
 please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes current accumulator value and an element,  
 accumulator value.  
 @sample samples.collections.Collections.Aggregates.reduce  
 public inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {  
 if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
 }  
 Accumulates value starting with the first element and applying [operation] from left to right  
 to current accumulator value and each element.  
 Throws an exception if this array is empty. If the array can be empty in an expected way,  
 please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes current accumulator value and an element,  
 accumulator value.  
 @sample samples.collections.Collections.Aggregates.reduce  
 public inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {  
 if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
 }  
 Accumulates value starting with the first element and applying [operation] from left to right  
 to current accumulator value and each element with its index in the original array.  
 Throws an exception if this array is empty. If the array can be empty in an expected way,  
 please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself,  
 and calculates the next accumulator value.  
 @sample samples.collections.Collections.Aggregates.reduce  
 public inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {  
 if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator: S = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(index, accumulator, this[index])  
 }  
 return accumulator  
 }  
 Accumulates value starting with the first element and applying [operation] from left to right  
 to current accumulator value and each element with its index in the original array.  
 Throws an

exception if this array is empty. If the array can be empty in an expected way, please use `[reduceIndexedOrNull]` instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

`@sample samples.collections.Collections.Aggregates.reduce`

```

public inline fun
ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return
 accumulator
}

```

Accumulates value starting with the first element and applying `[operation]` from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use `[reduceIndexedOrNull]` instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

`@sample samples.collections.Collections.Aggregates.reduce`

```

public inline fun
ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return
 accumulator
}

```

Accumulates value starting with the first element and applying `[operation]` from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use `[reduceIndexedOrNull]` instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

`@sample samples.collections.Collections.Aggregates.reduce`

```

public inline fun
IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return
 accumulator
}

```

Accumulates value starting with the first element and applying `[operation]` from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use `[reduceIndexedOrNull]` instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

`@sample samples.collections.Collections.Aggregates.reduce`

```

public inline fun
LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return
 accumulator
}

```

Accumulates value starting with the first element and applying `[operation]` from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use `[reduceIndexedOrNull]` instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

`@sample samples.collections.Collections.Aggregates.reduce`

```

public inline fun
FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return
 accumulator
}

```

Accumulates value starting with the first element and applying `[operation]` from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use `[reduceIndexedOrNull]` instead. It returns `null` when its receiver is empty.

`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun
DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {\n if (isEmpty())\n
 throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun
BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {\n if
(isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n
return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from
left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws
an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function
that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun
CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <S, T : S>
Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n if (isEmpty())\n return
null\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte,
Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun
ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator

```

```

value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) ->
Int): Int? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n
accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value and the element itself,\n * and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun LongArray.reduceIndexedOrNull(operation: (index: Int, acc: Long,
Long) -> Long): Long? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc:
Double, Double) -> Double): Double? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean? {\n if
(isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char,
Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n if (isEmpty())\n return null\n var
accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n

```

```

}\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {\n if (isEmpty())\n return
null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator,
this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun

```

```

BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {
 if (isEmpty())
 return null
 var accumulator = this[0]
 for (index in 1..lastIndex) {
 accumulator =
 operation(accumulator, this[index])
 }
 return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

Returns `null` if the array is empty.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceOrNull

```

```

* Since Kotlin("1.4")
* WasExperimental(ExperimentalStdlibApi::class)
public inline fun
CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {
 if (isEmpty())
 return null
 var accumulator = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight

```

```

public inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator: S = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight

```

```

public inline fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {
 var index = lastIndex
 if (index < 0)
 throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight

```

```

public inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.reduceRight

```

```

public inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next

```

accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline
fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {\n var index = lastIndex\n if (index <
0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If
the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun FloatArray.reduceRight(operation:
(Float, acc: Float) -> Float): Float {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while
(index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes an element and current accumulator value,\n * and calculates the next
accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun DoubleArray.reduceRight(operation:
(Double, acc: Double) -> Double): Double {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
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the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\n var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If
the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun CharArray.reduceRight(operation:
(Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while
(index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If
the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null`
when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element
itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S> Array<out
T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = get(index--)\n while
(index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return

```

```

accumulator\n}\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic
inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n}\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
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samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n}\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n var index = lastIndex\n if (index
< 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n}\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic
inline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n}\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),

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accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n var
index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n
var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n
 }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n
* Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the
element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <S,
T : S> Array<out T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator: S = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun
ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample

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@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample

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samples.collections.Collections.Aggregates.reduceRightOrNull\n *^/\n@SinceKotlin("1.4")\npublic inline fun
ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, acc: Short) -> Short): Short? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.reduceRightOrNull\n *^/\n@SinceKotlin("1.4")\npublic inline fun
IntArray.reduceRightIndexedOrNull(operation: (index: Int, Int, acc: Int) -> Int): Int? {\n var index = lastIndex\n
if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the last element and applying [operation] from right to left\n * to each element with its index in
the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, the element itself and current accumulator value,\n * and
calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.reduceRightOrNull\n *^/\n@SinceKotlin("1.4")\npublic inline fun
LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.reduceRightOrNull\n *^/\n@SinceKotlin("1.4")\npublic inline fun
FloatArray.reduceRightIndexedOrNull(operation: (index: Int, Float, acc: Float) -> Float): Float? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.reduceRightOrNull\n *^/\n@SinceKotlin("1.4")\npublic inline fun
DoubleArray.reduceRightIndexedOrNull(operation: (index: Int, Double, acc: Double) -> Double): Double? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.reduceRightOrNull\n *^/\n@SinceKotlin("1.4")\npublic inline fun
BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean? {\n
var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *

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@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample

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samples.collections.Collections.Aggregates.reduceRightOrNull\n *^n@SinceKotlin("1.4")\npublic inline fun
CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*^n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n var index = lastIndex\n if (index < 0)
return null\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--),
accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*^n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte) -> Byte): Byte? {\n var index = lastIndex\n if (index
< 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*^n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {\n var index = lastIndex\n if
(index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*^n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {\n var index = lastIndex\n if (index < 0)
return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--),
accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*^n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {\n var index = lastIndex\n if
(index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current

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accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {\n var index = lastIndex\n if
(index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n var index = lastIndex\n if (index
< 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
<T, R> Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFold(initial: R,
operation: (acc: R, Byte) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list

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containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n

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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFold(initial: R,
operation: (acc: R, Short) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFold(initial: R,
operation: (acc: R, Int) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size +
1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.runningFold(initial: R,
operation: (acc: R, Long) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.runningFold(initial: R,
operation: (acc: R, Float) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.runningFold(initial: R,
operation: (acc: R, Double) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result =
ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n
accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * \n *

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@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.runningFold
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R> BooleanArray.runningFold(initial: R, operation: (acc: R, Boolean) -> R): List<R> {
 if (isEmpty()) return listOf(initial)
 val result = ArrayList<R>(size + 1).apply { add(initial) }
 var accumulator = initial
 for (element in this) {
 accumulator = operation(accumulator, element)
 result.add(accumulator)
 }
 return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.runningFold
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R> CharArray.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {
 if (isEmpty()) return listOf(initial)
 val result = ArrayList<R>(size + 1).apply { add(initial) }
 var accumulator = initial
 for (element in this) {
 accumulator = operation(accumulator, element)
 result.add(accumulator)
 }
 return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.runningFold
*/
@SinceKotlin("1.4")
public inline fun <T, R> Array<out T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
 if (isEmpty()) return listOf(initial)
 val result = ArrayList<R>(size + 1).apply { add(initial) }
 var accumulator = initial
 for (index in indices) {
 accumulator = operation(index, accumulator, this[index])
 result.add(accumulator)
 }
 return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.runningFold
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R> ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {
 if (isEmpty()) return listOf(initial)
 val result = ArrayList<R>(size + 1).apply { add(initial) }
 var accumulator = initial
 for (index in indices) {
 accumulator = operation(index, accumulator, this[index])
 result.add(accumulator)
 }
 return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.runningFold
*/
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R> ShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {
 if (isEmpty()) return listOf(initial)
 val result = ArrayList<R>(size + 1).apply { add(initial) }
 var accumulator = initial
 for (index in indices) {
 accumulator = operation(index, accumulator, this[index])
 result.add(accumulator)
 }
 return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation]

function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.runningFold
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <R>
IntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {n if (isEmpty()) return
listOf(initial)n val result = ArrayList<R>(size + 1).apply { add(initial) }n var accumulator = initialn for
(index in indices) {n accumulator = operation(index, accumulator, this[index])n result.add(accumulator)n
}n return resultn}n/n/**n * Returns a list containing successive accumulation values generated by applying
[operation] from left to rightn * to each element, its index in the original array and current accumulator value that
starts with [initial] value.n * n * Note that `acc` value passed to [operation] function should not be mutated;n *
otherwise it would affect the previous value in resulting list.n * n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself, and calculates the next accumulator
value.n * n * @sample samples.collections.Collections.Aggregates.runningFold
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <R>
LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {n if (isEmpty())
return listOf(initial)n val result = ArrayList<R>(size + 1).apply { add(initial) }n var accumulator = initialn
for (index in indices) {n accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n }n return resultn}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element, its index in the original array and
current accumulator value that starts with [initial] value.n * n * Note that `acc` value passed to [operation] function
should not be mutated;n * otherwise it would affect the previous value in resulting list.n * n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself, and calculates the
next accumulator value.n * n * @sample samples.collections.Collections.Aggregates.runningFold
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <R>
FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {n if (isEmpty())
return listOf(initial)n val result = ArrayList<R>(size + 1).apply { add(initial) }n var accumulator = initialn
for (index in indices) {n accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n }n return resultn}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element, its index in the original array and
current accumulator value that starts with [initial] value.n * n * Note that `acc` value passed to [operation] function
should not be mutated;n * otherwise it would affect the previous value in resulting list.n * n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself, and calculates the
next accumulator value.n * n * @sample samples.collections.Collections.Aggregates.runningFold
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <R>
DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {n if
(isEmpty()) return listOf(initial)n val result = ArrayList<R>(size + 1).apply { add(initial) }n var accumulator =
initialn for (index in indices) {n accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n }n return resultn}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element, its index in the original array and
current accumulator value that starts with [initial] value.n * n * Note that `acc` value passed to [operation] function
should not be mutated;n * otherwise it would affect the previous value in resulting list.n * n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself, and calculates the
next accumulator value.n * n * @sample samples.collections.Collections.Aggregates.runningFold
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <R>
BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {n if
(isEmpty()) return listOf(initial)n val result = ArrayList<R>(size + 1).apply { add(initial) }n var accumulator =
initialn for (index in indices) {n accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n }n return resultn}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element, its index in the original array and

```

current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes current accumulator value and the element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n if (isEmpty()) return emptyList()\n var
accumulator: S = this[0]\n val result = ArrayList<S>(size).apply { add(accumulator) }\n for (index in 1 until
size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduce(operation:
(acc: Byte, Byte) -> Byte): List<Byte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val
result = ArrayList<Byte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function
that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation:
(acc: Short, Short) -> Short): List<Short> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n
val result = ArrayList<Short>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function
that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc:
Int, Int) -> Int): List<Int> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result =
ArrayList<Int>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function
that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduce(operation:
(acc: Long, Long) -> Long): List<Long> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n
```



```
val result = ArrayList<Long>(size).apply { add(accumulator) }
for (index in 1 until size) {
 accumulator = operation(accumulator, this[index])
 result.add(accumulator)
}
return result
```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right \* to each element and current accumulator value that starts with the first element of this array.  
\* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
\* @sample samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation: (acc: Float, Float) -> Float): List<Float> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Float>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation: (acc: Double, Double) -> Double): List<Double> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Double>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n if (isEmpty()) return emptyList()\n var accumulator: S = this[0]\n val result = ArrayList<S>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
```

```

*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Byte>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Short>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<Int>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.runningReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Long>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Float>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Double>(size).apply {

```

```

add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n } \n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean>
{\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result =
ArrayList<Boolean>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(index, accumulator, this[index])\n result.add(accumulator)\n } \n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with the first element of this
array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and
the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n } \n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note
that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous
value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element,
and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note
that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous
value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element,
and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {\n return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator
value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>

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Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic

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c inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n
return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
c inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n
return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
c inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n
return
runningFoldIndexed(initial, operation)\n}\n\n@Deprecated("Use runningReduce instead."),
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Array<out T>.scanReduce(operation: (acc: S, T) -> S): List<S> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead."),
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c inline fun ByteArray.scanReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead."),
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c inline fun ShortArray.scanReduce(operation: (acc: Short, Short) -> Short): List<Short> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead."),
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c inline fun IntArray.scanReduce(operation: (acc: Int, Int) -> Int): List<Int> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead."),
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c inline fun LongArray.scanReduce(operation: (acc: Long, Long) -> Long): List<Long> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead."),
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c inline fun FloatArray.scanReduce(operation: (acc: Float, Float) -> Float): List<Float> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead."),
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
c inline fun DoubleArray.scanReduce(operation: (acc: Double, Double) -> Double): List<Double> {\n
return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead."),
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic

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c inline fun BooleanArray.scanReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.\n",
ReplaceWith("runningReduce(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun CharArray.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\n",
ReplaceWith("runningReduceIndexed(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Array<out T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n return
runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\n",
ReplaceWith("runningReduceIndexed(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun ByteArray.scanReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n return
runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\n",
ReplaceWith("runningReduceIndexed(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun ShortArray.scanReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n
return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\n",
ReplaceWith("runningReduceIndexed(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun IntArray.scanReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n return
runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\n",
ReplaceWith("runningReduceIndexed(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun LongArray.scanReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n
return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\n",
ReplaceWith("runningReduceIndexed(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun FloatArray.scanReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n
return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.\n",
ReplaceWith("runningReduceIndexed(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun DoubleArray.scanReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double):
List<Double> {\n return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed
instead.\n", ReplaceWith("runningReduceIndexed(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun BooleanArray.scanReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean):
List<Boolean> {\n return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed
instead.\n", ReplaceWith("runningReduceIndexed(operation)\n"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npubli
c inline fun CharArray.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n
return runningReduceIndexed(operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\npublic inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {\n
var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic
inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum
+= selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n */\npublic inline fun ShortArray.sumBy(selector: (Short) -> Int): Int

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{\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun IntArray.sumBy(selector: (Int) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun LongArray.sumBy(selector: (Long) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun CharArray.sumBy(selector: (Char) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n\n*\/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n\n*\/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\\")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.sumOf(selector: (Byte) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\\")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\\")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sumOf(selector: (Int) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this)
{\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\\")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\\")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sumOf(selector: (Float) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\\")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element
in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\\")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> Double): Double {\n var sum: Double = 0.toDouble()\n for
(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfDouble\\")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sumOf(selector: (Char) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfInt\\")\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Array<out T>.sumOf(selector: (T) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin(\\"1.4\\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\\"sumOfInt\\")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.sumOf(selector: (Byte) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function

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applied to each element in the array.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nShortArray.sumOf(selector: (Short) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nIntArray.sumOf(selector: (Int) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nLongArray.sumOf(selector: (Long) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nFloatArray.sumOf(selector: (Float) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nDoubleArray.sumOf(selector: (Double) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nBooleanArray.sumOf(selector: (Boolean) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nCharArray.sumOf(selector: (Char) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\n<T> Array<out T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)\n {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by\n [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\nByteArray.sumOf(selector: (Byte) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]\n function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
```

```

ShortArray.sumOf(selector: (Short) -> Long): Long {
 var sum: Long = 0.toLong()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
 * Returns the sum of all values produced by [selector]
function applied to each element in the array.

* Since Kotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
IntArray.sumOf(selector: (Int) -> Long): Long {
 var sum: Long = 0.toLong()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
 * Returns the sum of all values produced by [selector]
function applied to each element in the array.

* Since Kotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
LongArray.sumOf(selector: (Long) -> Long): Long {
 var sum: Long = 0.toLong()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
 * Returns the sum of all values produced by [selector]
function applied to each element in the array.

* Since Kotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
FloatArray.sumOf(selector: (Float) -> Long): Long {
 var sum: Long = 0.toLong()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
 * Returns the sum of all values produced by [selector]
function applied to each element in the array.

* Since Kotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
DoubleArray.sumOf(selector: (Double) -> Long): Long {
 var sum: Long = 0.toLong()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
 * Returns the sum of all values produced by
[selector] function applied to each element in the array.

* Since Kotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
BooleanArray.sumOf(selector: (Boolean) -> Long): Long {
 var sum: Long = 0.toLong()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
 * Returns the sum of all values produced by
[selector] function applied to each element in the array.

* Since Kotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
CharArray.sumOf(selector: (Char) -> Long): Long {
 var sum: Long = 0.toLong()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
 * Returns the sum of all values produced by [selector]
function applied to each element in the array.

* Since Kotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal
.InlineOnly
public inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {
 var sum: UInt =
0.toUInt()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
 * Returns the
sum of all values produced by [selector] function applied to each element in the array.

* Since Kotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal
.InlineOnly
public inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {
 var sum: UInt = 0.toUInt()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
 * Returns the sum of all
values produced by [selector] function applied to each element in the array.

* Since Kotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@ExperimentalUnsignedTypes
@kotlin.internal
.InlineOnly
public inline fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {
 var sum: UInt = 0.toUInt()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
 * Returns the sum of all
values produced by [selector] function applied to each element in the array.

```

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal  
.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for  
(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values  
produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal  
.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for  
(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all  
values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal  
.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for  
(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all  
values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal  
.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n var sum: UInt =  
0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the  
sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal  
.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt {\n var sum: UInt =  
0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the  
sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal  
.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for  
(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all  
values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter  
nal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong): ULong {\n var sum: ULong  
= 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns  
the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter  
nal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong {\n var sum: ULong =  
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns  
the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter  
nal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> ULong): ULong {\n var sum: ULong =  
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns  
the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter  
nal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {\n var sum: ULong =

```

0.toULong()\n for (element in this) {\n sum += selector(element)\n } return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n } return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n } return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> ULong): ULong {\n var sum: ULong
= 0.toULong()\n for (element in this) {\n sum += selector(element)\n } return sum\n}\n\n/**\n * Returns
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong): ULong {\n var sum:
ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n } return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n } return sum\n}\n\n/**\n * Returns
an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are
any `null` elements.\n *\npublic fun <T : Any> Array<T?.>.requireNonNulls(): Array<T> {\n for (element in this)
{\n if (element == null) {\n throw IllegalArgumentException("null element found in $this.")\n }\n }\n @Suppress("UNCHECKED_CAST")\n return this as Array<T>\n}\n\n/**\n * Splits the original array into
pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list
contains elements for which [predicate] yielded `false`.\n *\n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *\npublic inline fun <T> Array<out
T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n val first = ArrayList<T>()\n val second =
ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n
second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair
of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list
contains elements for which [predicate] yielded `false`.\n *\n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *\npublic inline fun
ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {\n val first =
ArrayList<Byte>()\n val second = ArrayList<Byte>()\n for (element in this) {\n if (predicate(element)) {\n
first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n *\n *
@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n *\npublic inline fun
ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n val first =
ArrayList<Short>()\n val second = ArrayList<Short>()\n for (element in this) {\n if (predicate(element)) {\n
first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first,

```

```

second)\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {\n val first = ArrayList<Int>()\n val
second = ArrayList<Int>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n
 } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original
array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while
second list contains elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {\n val first =
ArrayList<Long>()\n val second = ArrayList<Long>()\n for (element in this) {\n if (predicate(element)) {\n
 first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n val first =
ArrayList<Float>()\n val second = ArrayList<Float>()\n for (element in this) {\n if (predicate(element)) {\n
 first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n val first =
ArrayList<Double>()\n val second = ArrayList<Double>()\n for (element in this) {\n if (predicate(element)) {\n
 first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n val first =
ArrayList<Boolean>()\n val second = ArrayList<Boolean>()\n for (element in this) {\n if
(predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n
return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n val
first = ArrayList<Char>()\n val second = ArrayList<Char>()\n for (element in this) {\n if
(predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n
return Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other]
array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other:
Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
<R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Array<out
R>): List<Pair<Short, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest

```

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collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \n\npublic infix fun <R>
IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \n\npublic infix fun <R> LongArray.zip(other: Array<out
R>): List<Pair<Long, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \n\npublic infix fun <R>
FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \n\npublic infix fun <R> DoubleArray.zip(other: Array<out
R>): List<Pair<Double, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \n\npublic infix fun <R>
BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {\n return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \n\npublic infix fun <R> CharArray.zip(other: Array<out R>):
List<Pair<Char, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the
elements of `this` array and the [other] array with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline fun <T, R, V> Array<out
T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n val size = minOf(size, other.size)\n val
list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
* \n\npublic inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {\n val
size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline fun <R, V>
ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i],
other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline fun <R, V>
IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {\n val size = minOf(size, other.size)\n
val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
* \n\npublic inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {\n
val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements

```

of `this` array and the [other] array with the same index\n \* using the provided [transform] function applied to each pair of elements.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

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samples.collections.Iterables.Operations.zipIterableWithTransform\n *
public inline fun <R, V>
FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {\n
 val size = minOf(size, other.size)\n
 val list = ArrayList<V>(size)\n
 for (i in 0 until size) {\n
 list.add(transform(this[i], other[i]))\n
 }\n
 return list\n}

```

\n\n/\*\*\n \* Returns a list of values built from the elements of `this` array and the [other] array with the same index\n \* using the provided [transform] function applied to each pair of elements.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform\n *
public inline fun <R, V>
DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {\n
 val size = minOf(size, other.size)\n
 val list = ArrayList<V>(size)\n
 for (i in 0 until size) {\n
 list.add(transform(this[i], other[i]))\n
 }\n
 return list\n}

```

\n\n/\*\*\n \* Returns a list of values built from the elements of `this` array and the [other] array with the same index\n \* using the provided [transform] function applied to each pair of elements.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform\n *
public inline fun <R, V>
BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {\n
 val size = minOf(size, other.size)\n
 val list = ArrayList<V>(size)\n
 for (i in 0 until size) {\n
 list.add(transform(this[i], other[i]))\n
 }\n
 return list\n}

```

\n\n/\*\*\n \* Returns a list of values built from the elements of `this` array and the [other] array with the same index\n \* using the provided [transform] function applied to each pair of elements.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform\n *
public inline fun <R, V>
CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {\n
 val size = minOf(size, other.size)\n
 val list = ArrayList<V>(size)\n
 for (i in 0 until size) {\n
 list.add(transform(this[i], other[i]))\n
 }\n
 return list\n}

```

\n\n/\*\*\n \* Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterable\n *
public infix fun <T, R> Array<out T>.zip(other:
Iterable<R>): List<Pair<T, R>> {\n
 return zip(other) { t1, t2 -> t1 to t2 }\n}

```

\n\n/\*\*\n \* Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterable\n *
public infix fun <R> ShortArray.zip(other: Iterable<R>):
List<Pair<Short, R>> {\n
 return zip(other) { t1, t2 -> t1 to t2 }\n}

```

\n\n/\*\*\n \* Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterable\n *
public infix fun <R> IntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {\n
 return zip(other) { t1, t2 -> t1 to t2 }\n}

```

\n\n/\*\*\n \* Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterable\n *
public infix fun <R> LongArray.zip(other: Iterable<R>):
List<Pair<Long, R>> {\n
 return zip(other) { t1, t2 -> t1 to t2 }\n}

```

\n\n/\*\*\n \* Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterable\n *
public infix fun <R> FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {\n
 return zip(other) { t1, t2 -> t1 to t2 }\n}

```

\n\n/\*\*\n \* Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterable\n *
public infix fun <R> DoubleArray.zip(other:
Iterable<R>): List<Pair<Double, R>> {\n
 return zip(other) { t1, t2 -> t1 to t2 }\n}

```

\n\n/\*\*\n \* Returns a list of pairs



```

built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
<R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {\n return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> CharArray.zip(other: Iterable<R>):
List<Pair<Char, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the
elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Array<out
T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n val arraySize = size\n val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n
if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline
fun <R, V> ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {\n val arraySize = size\n
val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in
other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n *
using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic
inline fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {\n val arraySize =
size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for
(element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {\n val arraySize = size\n val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n
if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline
fun <R, V> LongArray.zip(other: Iterable<R>, transform: (a: Long, b: R) -> V): List<V> {\n val arraySize =
size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for
(element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {\n val arraySize = size\n val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n
if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline

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fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {
 val arraySize = size
 val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 var i = 0
 for (element in other) {
 if (i >= arraySize) break
 list.add(transform(this[i++], element))
 }
 return list
}

/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the
 * same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 */
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

/**
 * public inline fun <R, V>
 * BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {
 * val arraySize = size
 * val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 * var i = 0
 * for (element in other) {
 * if (i >= arraySize) break
 * list.add(transform(this[i++], element))
 * }
 * return list
 * }

/**
 * Returns a list of values built from the elements of `this` array and the [other] collection with the same index
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 */
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

/**
 * public inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {
 * val arraySize = size
 * val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
 * var i = 0
 * for (element in other) {
 * if (i >= arraySize) break
 * list.add(transform(this[i++], element))
 * }
 * return list
 * }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
 * index.
 * The returned list has length of the shortest collection.
 */
@sample
samples.collections.Iterables.Operations.zipIterable

/**
 * public infix fun ByteArray.zip(other: ByteArray):
 * List<Pair<Byte, Byte>> {
 * return zip(other) { t1, t2 -> t1 to t2 }
 * }

/**
 * Returns a list of pairs built from
 * the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest
 * collection.
 */
@sample
samples.collections.Iterables.Operations.zipIterable

/**
 * public infix fun ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {
 * return zip(other) { t1, t2 -> t1 to t2 }
 * }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The
 * returned list has length of the shortest collection.
 */
@sample
samples.collections.Iterables.Operations.zipIterable

/**
 * public infix fun IntArray.zip(other: IntArray):
 * List<Pair<Int, Int>> {
 * return zip(other) { t1, t2 -> t1 to t2 }
 * }

/**
 * Returns a list of pairs built from the
 * elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest
 * collection.
 */
@sample
samples.collections.Iterables.Operations.zipIterable

/**
 * public infix fun LongArray.zip(other: LongArray): List<Pair<Long, Long>> {
 * return zip(other) { t1, t2 -> t1 to t2 }
 * }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The
 * returned list has length of the shortest collection.
 */
@sample
samples.collections.Iterables.Operations.zipIterable

/**
 * public infix fun FloatArray.zip(other: FloatArray):
 * List<Pair<Float, Float>> {
 * return zip(other) { t1, t2 -> t1 to t2 }
 * }

/**
 * Returns a list of pairs built from
 * the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest
 * collection.
 */
@sample
samples.collections.Iterables.Operations.zipIterable

/**
 * public infix fun DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {
 * return zip(other) { t1, t2 -> t1 to t2
 * }
 * }

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
 * index.
 * The returned list has length of the shortest collection.
 */
@sample
samples.collections.Iterables.Operations.zipIterable

/**
 * public infix fun BooleanArray.zip(other: BooleanArray):
 * List<Pair<Boolean, Boolean>> {
 * return zip(other) { t1, t2 -> t1 to t2 }
 * }

/**
 * Returns a list of pairs built
 * from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the
 * shortest collection.
 */
@sample
samples.collections.Iterables.Operations.zipIterable

/**
 * public infix fun CharArray.zip(other: CharArray): List<Pair<Char, Char>> {
 * return zip(other) { t1, t2 -> t1 to t2 }
 * }

/**
 * Returns a list of values built from the elements of `this` array and the [other] array with the same index
 * using the
 * provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest
 * array.
 */
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

/**
 * public inline fun
 * <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {
 * val size = minOf(size,

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other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array\n * with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned\n * list has length of the\n * shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array\n * with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned\n * list has length of the\n * shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V> IntArray.zip(other:
IntArray, transform: (a: Int, b: Int) -> V): List<V> {\n val size = minOf(size, other.size)\n val list =
ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <V> LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {\n val
size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i],
other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i],
other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {\n val size =
minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i],
other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the
[other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n *
The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i],
other[i]))\n }\n return list\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the
given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value
of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string
(which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n *\npublic fun
<T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence = '\\', '\\', prefix: CharSequence = "\\\"",
postfix: CharSequence = "\\\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? =

```

```
null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 buffer.appendElement(element, transform)
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
}
return buffer
}

Append the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 if (transform != null)
 buffer.append(transform(element))
 else
 buffer.append(element.toString())
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
}
return buffer
}

Append the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? = null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 if (transform != null)
 buffer.append(transform(element))
 else
 buffer.append(element.toString())
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
}
return buffer
}

Append the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 if (transform != null)
 buffer.append(transform(element))
 else
 buffer.append(element.toString())
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
}
return buffer
}

Append the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable> LongArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? = null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 if (transform != null)
 buffer.append(transform(element))
 else
 buffer.append(element.toString())
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
}
return buffer
}

Append the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo

public fun <A : Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix:
```

```

CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Float) -> CharSequence)? =
null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 if (transform != null)
 buffer.append(transform(element))
 else
 buffer.append(element.toString())
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
 return buffer
}

Append the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which
defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo
public fun <A :
Appendable> DoubleArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\", postfix:
CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Double) -> CharSequence)? =
null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 if (transform != null)
 buffer.append(transform(element))
 else
 buffer.append(element.toString())
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
 return buffer
}

Append the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which
defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo
public fun <A :
Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\",
postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Boolean) ->
CharSequence)? = null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count
> 1) buffer.append(separator)
 if (limit < 0 || count <= limit) {
 if (transform != null)
 buffer.append(transform(element))
 else
 buffer.append(element.toString())
 } else break
 }
 if (limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
 return buffer
}

Append the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which
defaults to "...").
@sample samples.collections.Collections.Transformations.joinTo
public fun <A :
Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\", postfix:
CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Char) -> CharSequence)? =
null): A {
 buffer.append(prefix)
 var count = 0
 for (element in this) {
 if (++count > 1)
 buffer.append(separator)
 if (limit < 0 || count <= limit) {
 if (transform != null)
 buffer.append(transform(element))
 else
 buffer.append(element)
 } else break
 }
 if
(limit >= 0 && count > limit) buffer.append(truncated)
 buffer.append(postfix)
 return buffer
}

Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only
the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
@sample samples.collections.Collections.Transformations.joinToString
public fun <T> Array<out
T>.joinToString(separator: CharSequence = "\", \", prefix: CharSequence = "\", postfix: CharSequence = "\", limit:
Int = -1, truncated: CharSequence = "...\", transform: ((T) -> CharSequence)? = null): String {
 return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

Creates a
string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
[limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
@sample
samples.collections.Collections.Transformations.joinToString
public fun ByteArray.joinToString(separator:
CharSequence = "\", \", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated:
CharSequence = "...\", transform: ((Byte) -> CharSequence)? = null): String {
 return joinTo(StringBuilder(),

```

```

separator, prefix, postfix, limit, truncated, transform).toString()\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *^npublic fun ShortArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated:
CharSequence = "...\", transform: ((Short) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *^npublic fun IntArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated:
CharSequence = "...\", transform: ((Int) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *^npublic fun LongArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated:
CharSequence = "...\", transform: ((Long) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *^npublic fun FloatArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated:
CharSequence = "...\", transform: ((Float) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *^npublic fun DoubleArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated:
CharSequence = "...\", transform: ((Double) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *^npublic fun
BooleanArray.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence =
\"", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Boolean) -> CharSequence)? = null): String {\n
return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates
a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n
* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
[limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *^npublic fun CharArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated:

```

```

CharSequence = "...", transform: ((Char) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()}\n\n/**\n * Creates an [Iterable] instance that
wraps the original array returning its elements when being iterated.\n */\npublic fun <T> Array<out T>.asIterable():
Iterable<T> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun
ByteArray.asIterable(): Iterable<Byte> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator()
}\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being
iterated.\n */\npublic fun ShortArray.asIterable(): Iterable<Short> {\n if (isEmpty()) return emptyList()\n return
Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its
elements when being iterated.\n */\npublic fun IntArray.asIterable(): Iterable<Int> {\n if (isEmpty()) return
emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.\n */\npublic fun LongArray.asIterable(): Iterable<Long> {\n if
(isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that
wraps the original array returning its elements when being iterated.\n */\npublic fun FloatArray.asIterable():
Iterable<Float> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun
DoubleArray.asIterable(): Iterable<Double> {\n if (isEmpty()) return emptyList()\n return Iterable {
this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when
being iterated.\n */\npublic fun BooleanArray.asIterable(): Iterable<Boolean> {\n if (isEmpty()) return
emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.\n */\npublic fun CharArray.asIterable(): Iterable<Char> {\n if
(isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that
wraps the original array returning its elements when being iterated.\n */\n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun <T> Array<out T>.asSequence():
Sequence<T> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ByteArray.asSequence():
Sequence<Byte> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ShortArray.asSequence():
Sequence<Short> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun IntArray.asSequence():
Sequence<Int> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun LongArray.asSequence():
Sequence<Long> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun FloatArray.asSequence():
Sequence<Float> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun DoubleArray.asSequence():
Sequence<Double> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n */\n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun
BooleanArray.asSequence(): Sequence<Boolean> {\n if (isEmpty()) return emptySequence()\n return Sequence
{ this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements
when being iterated.\n */\n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic

```

```

fun CharArray.asSequence(): Sequence<Char> {
 if (isEmpty()) return emptySequence()
 return Sequence {
 this.iterator()
 }
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Array<out Byte>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun Array<out Short>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Array<out Int>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Array<out Long>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Array<out Float>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Array<out Double>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

public fun ByteArray.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun ShortArray.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun IntArray.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun LongArray.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun FloatArray.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun DoubleArray.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 ++count
 }
 return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Array<out Byte>.sum(): Int {
 var sum: Int = 0
 for (element in this) {
 sum += element
 }
 return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Array<out Short>.sum(): Int {
 var sum: Int = 0
 for (element in this) {
 sum += element
 }
 return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Array<out Int>.sum(): Int {
 var sum: Int = 0
 for (element in this) {
 sum += element
 }
 return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Array<out Long>.sum(): Long {
 var sum: Long = 0L
 for (element in this) {
 sum += element
 }
 return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Array<out Float>.sum(): Float {
 var sum: Float = 0.0f
 for (element in this) {
 sum += element
 }
 return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Array<out Double>.sum(): Double {
 var sum: Double = 0.0
 for (element in this) {
 sum += element
 }
 return sum
}

```



```

return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ByteArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ShortArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun IntArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun LongArray.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun FloatArray.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun DoubleArray.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n"/>\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
```

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/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage kotlin.ranges\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.random(): Long {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\npublic fun IntRange.random(random: Random): Int {\n try {\n return random.nextInt(this)\n } catch (e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\npublic fun LongRange.random(random: Random): Long {\n try {\n return random.nextLong(this)\n } catch (e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.3")\npublic fun CharRange.random(random: Random): Char {\n try {\n return random.nextInt(first.toInt(), last.toInt() + 1).toChar()\n } catch (e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.randomOrNull(): Int? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.randomOrNull(): Long? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.randomOrNull(): Char? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun IntRange.randomOrNull(random: Random): Int? {\n if (isEmpty())\n return null\n return

```

random.nextInt(this)\n}\n\n/\*\*\n \* Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
LongRange.randomOrNull(random: Random): Long? {\n if (isEmpty())\n return null\n return
random.nextLong(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharRange.randomOrNull(random: Random): Char? {\n if (isEmpty())\n return null\n return
random.nextInt(first.toInt(), last.toInt() + 1).toChar()\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(element: Int?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element: Long?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element: Char?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun
ClosedRange<Int>.contains(value: Byte): Boolean {\n return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Byte): Boolean {\n return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator
fun ClosedRange<Short>.contains(value: Byte): Boolean {\n return contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Byte): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Byte): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Double): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value: Double): Boolean {\n return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value: Double): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *

```

Checks if the specified [value] belongs to this range.\n \*\n@Deprecated(\`This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\`)\n@DeprecatedSinceKotlin(warningSince = `1.3`, errorSince = `1.4`)\n@kotlin.jvm.JvmName(`shortRangeContains`)\npublic operator fun ClosedRange<Short>.contains(value: Double): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName(`floatRangeContains`)\npublic operator fun ClosedRange<Float>.contains(value: Double): Boolean {\n return contains(value.toFloat())\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated(\`This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\`)\n@DeprecatedSinceKotlin(warningSince = `1.3`, errorSince = `1.4`)\n@kotlin.jvm.JvmName(`intRangeContains`)\npublic operator fun ClosedRange<Int>.contains(value: Float): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated(\`This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\`)\n@DeprecatedSinceKotlin(warningSince = `1.3`, errorSince = `1.4`)\n@kotlin.jvm.JvmName(`longRangeContains`)\npublic operator fun ClosedRange<Long>.contains(value: Float): Boolean {\n return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated(\`This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\`)\n@DeprecatedSinceKotlin(warningSince = `1.3`, errorSince = `1.4`)\n@kotlin.jvm.JvmName(`byteRangeContains`)\npublic operator fun ClosedRange<Byte>.contains(value: Float): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated(\`This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\`)\n@DeprecatedSinceKotlin(warningSince = `1.3`, errorSince = `1.4`)\n@kotlin.jvm.JvmName(`shortRangeContains`)\npublic operator fun ClosedRange<Short>.contains(value: Float): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName(`doubleRangeContains`)\npublic operator fun ClosedRange<Double>.contains(value: Float): Boolean {\n return contains(value.toDouble())\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName(`longRangeContains`)\npublic operator fun ClosedRange<Long>.contains(value: Int): Boolean {\n return contains(value.toLong())\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName(`byteRangeContains`)\npublic operator fun ClosedRange<Byte>.contains(value: Int): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName(`shortRangeContains`)\npublic operator fun ClosedRange<Short>.contains(value: Int): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated(\`This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\`)\n@DeprecatedSinceKotlin(warningSince = `1.3`, errorSince = `1.4`)\n@kotlin.jvm.JvmName(`doubleRangeContains`)\npublic operator fun ClosedRange<Double>.contains(value: Int): Boolean {\n return contains(value.toDouble())\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@Deprecated(\`This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\`)\n@DeprecatedSinceKotlin(warningSince = `1.3`, errorSince = `1.4`)\n@kotlin.jvm.JvmName(`floatRangeContains`)\npublic operator fun ClosedRange<Float>.contains(value: Int): Boolean {\n return contains(value.toFloat())\n}\n\n\*\*\n \* Checks if the specified [value] belongs to this range.\n \*\n@kotlin.jvm.JvmName(`intRangeContains`)\npublic operator fun ClosedRange<Int>.contains(value:

Long): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \* \n \*/\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value: Long): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \* \n \*/\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Long): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \* \n \*/\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value: Long): Boolean {\n return contains(value.toDouble())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \* \n \*/\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Long): Boolean {\n return contains(value.toFloat())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \* \n \*/\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Short): Boolean {\n return contains(value.toInt())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \* \n \*/\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value: Short): Boolean {\n return contains(value.toLong())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \* \n \*/\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value: Short): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \* \n \*/\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value: Short): Boolean {\n return contains(value.toDouble())\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n \* \n \*/\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Short): Boolean {\n return contains(value.toFloat())\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* \n \* If the [to] value is greater than `this` value the returned progression is empty.\n \* \n \*/\npublic infix fun Int.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* \n \* If the [to] value is greater than `this` value the returned progression is empty.\n \* \n \*/\npublic infix fun Long.downTo(to: Byte): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* \n \* If the [to] value is greater than `this` value the returned progression is empty.\n \* \n \*/\npublic infix fun Byte.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* \n \* If the [to] value is greater than `this` value the returned progression is empty.\n \* \n \*/\npublic infix fun Short.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* \n \* If the [to] value is greater than `this` value the returned progression is empty.\n \* \n \*/\npublic infix fun Char.downTo(to: Char): CharProgression {\n return

CharProgression.fromClosedRange(this, to, -1)\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Int.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this, to, -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Long.downTo(to: Int): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Byte.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Short.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Int.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Long.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this, to, -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Byte.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Short.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Int.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Long.downTo(to: Short): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Byte.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Short.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range in the opposite direction with the same step.\n \*/\npublic fun IntProgression.reversed(): IntProgression {\n return IntProgression.fromClosedRange(last, first, -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range in the opposite direction with the same step.\n \*/\npublic fun LongProgression.reversed(): LongProgression {\n return LongProgression.fromClosedRange(last, first, -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range in the opposite direction with the same step.\n \*/\npublic fun CharProgression.reversed(): CharProgression {\n return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the

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same range with the given step.\n */\npublic infix fun IntProgression.step(step: Int): IntProgression {\n
checkStepIsPositive(step > 0, step)\n return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -
step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun
LongProgression.step(step: Long): LongProgression {\n checkStepIsPositive(step > 0, step)\n return
LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression
that goes over the same range with the given step.\n */\npublic infix fun CharProgression.step(step: Int):
CharProgression {\n checkStepIsPositive(step > 0, step)\n return CharProgression.fromClosedRange(first, last, if
(this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteExactOrNull(): Byte? {\n return if (this in
Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null\n}\n\ninternal fun
Long.toByteExactOrNull(): Byte? {\n return if (this in
Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun
Short.toByteExactOrNull(): Byte? {\n return if (this in
Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun
Double.toByteExactOrNull(): Byte? {\n return if (this in
Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toInt().toByte() else null\n}\n\ninternal fun
Float.toByteExactOrNull(): Byte? {\n return if (this in
Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toInt().toByte() else null\n}\n\ninternal fun
Long.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong())
this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n return if (this in
Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun
Float.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat())
this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull(): Long? {\n return if (this in
Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun
Float.toLongExactOrNull(): Long? {\n return if (this in
Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun
Int.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt())
this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n return if (this in
Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun
Double.toShortExactOrNull(): Short? {\n return if (this in
Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toInt().toShort() else null\n}\n\ninternal fun
Float.toShortExactOrNull(): Short? {\n return if (this in
Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toInt().toShort() else null\n}\n\n/**\n * Returns
a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to
`this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Byte): IntRange {\n return this ..
(to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n *
\n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun
Long.until(to: Byte): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from
this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
then the returned range is empty.\n */\npublic infix fun Byte.until(to: Byte): IntRange {\n return this.toInt() ..
(to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n *
\n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun
Short.until(to: Byte): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from
this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
then the returned range is empty.\n */\npublic infix fun Char.until(to: Char): CharRange {\n if (to <= "\u0000")
return CharRange.EMPTY\n return this .. (to - 1).toChar()\n}\n\n/**\n * Returns a range from this value up to but
excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned
range is empty.\n */\npublic infix fun Int.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return
IntRange.EMPTY\n return this .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding

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the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Long.until(to: Int): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Byte.until(to: Int): IntRange {\n if (to <= Int.MIN\_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to - 1).toInt()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Short.until(to: Int): IntRange {\n if (to <= Int.MIN\_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to - 1).toInt()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Int.until(to: Long): LongRange {\n if (to <= Long.MIN\_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Long.until(to: Long): LongRange {\n if (to <= Long.MIN\_VALUE) return LongRange.EMPTY\n return this .. (to - 1).toLong()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Byte.until(to: Long): LongRange {\n if (to <= Long.MIN\_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Short.until(to: Long): LongRange {\n if (to <= Long.MIN\_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Int.until(to: Short): IntRange {\n return this .. (to.toInt() - 1).toInt()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Long.until(to: Short): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Byte.until(to: Short): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/\*\*\n \* Returns a range from this value up to but excluding the specified [to] value.\n \* \n \* If the [to] value is less than or equal to `this` value, then the returned range is empty.\n \*/\npublic infix fun Short.until(to: Short): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeastComparable\n \*/\npublic fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast\n \*/\npublic fun Byte.coerceAtLeast(minimumValue: Byte): Byte {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast\n \*/\npublic fun Short.coerceAtLeast(minimumValue: Short): Short {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast\n \*/\npublic fun Int.coerceAtLeast(minimumValue: Int): Int {\n return if (this < minimumValue) minimumValue else this\n}\n\n/\*\*\n \* Ensures that this value is not less than the specified [minimumValue].\n \* \n \* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n \* \n \* @sample samples.comparisons.ComparableOps.coerceAtLeast\n \*/\npublic fun Long.coerceAtLeast(minimumValue: Long):

```

Long {
 return if (this < minimumValue) minimumValue else this
}
/**
 * Ensures that this value is not less than the specified [minimumValue].
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtLeast
 */
public fun Float.coerceAtLeast(minimumValue: Float): Float {
 return if (this < minimumValue) minimumValue else this
}
/**
 * Ensures that this value is not less than the specified [minimumValue].
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtLeast
 */
public fun Double.coerceAtLeast(minimumValue: Double): Double {
 return if (this < minimumValue) minimumValue else this
}
/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMostComparable
 */
public fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T {
 return if (this > maximumValue) maximumValue else this
}
/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun Byte.coerceAtMost(maximumValue: Byte): Byte {
 return if (this > maximumValue) maximumValue else this
}
/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun Short.coerceAtMost(maximumValue: Short): Short {
 return if (this > maximumValue) maximumValue else this
}
/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun Int.coerceAtMost(maximumValue: Int): Int {
 return if (this > maximumValue) maximumValue else this
}
/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun Long.coerceAtMost(maximumValue: Long): Long {
 return if (this > maximumValue) maximumValue else this
}
/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun Float.coerceAtMost(maximumValue: Float): Float {
 return if (this > maximumValue) maximumValue else this
}
/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun Double.coerceAtMost(maximumValue: Double): Double {
 return if (this > maximumValue) maximumValue else this
}
/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * @sample samples.comparisons.ComparableOps.coerceInComparable
 */
public fun <T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {
 if (minimumValue !== null && maximumValue !== null) {
 if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
 if (this < minimumValue) return minimumValue
 if (this > maximumValue) return maximumValue
 } else {
 if (minimumValue !== null && this < minimumValue) return minimumValue
 if (maximumValue !== null && this > maximumValue) return maximumValue
 }
 return this
}
/**
 * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].
 * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].
 * @sample samples.comparisons.ComparableOps.coerceIn
 */
public fun Byte.coerceIn(minimumValue: Byte,

```



```

maximumValue: Byte): Byte {
 if (minimumValue > maximumValue) throw
 IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
 minimum $minimumValue.")
 if (this < minimumValue) return minimumValue
 if (this > maximumValue)
 return maximumValue
 return this
}

Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].

@return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].

@sample
samples.comparisons.ComparableOps.coerceIn

public fun Short.coerceIn(minimumValue: Short,
maximumValue: Short): Short {
 if (minimumValue > maximumValue) throw
 IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
 minimum $minimumValue.")
 if (this < minimumValue) return minimumValue
 if (this > maximumValue)
 return maximumValue
 return this
}

Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].

@return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].

@sample
samples.comparisons.ComparableOps.coerceIn

public fun Int.coerceIn(minimumValue: Int, maximumValue:
Int): Int {
 if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an
 empty range: maximum $maximumValue is less than minimum $minimumValue.")
 if (this < minimumValue)
 return minimumValue
 if (this > maximumValue) return maximumValue
 return this
}

Ensures
that this value lies in the specified range [minimumValue]..[maximumValue].

@return this value if it's in
the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater
than [maximumValue].

@sample
samples.comparisons.ComparableOps.coerceIn

public fun
Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {
 if (minimumValue > maximumValue)
 throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
 minimum $minimumValue.")
 if (this < minimumValue) return minimumValue
 if (this > maximumValue)
 return maximumValue
 return this
}

Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].

@return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].

@sample
samples.comparisons.ComparableOps.coerceIn

public fun Float.coerceIn(minimumValue: Float,
maximumValue: Float): Float {
 if (minimumValue > maximumValue) throw
 IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
 minimum $minimumValue.")
 if (this < minimumValue) return minimumValue
 if (this > maximumValue)
 return maximumValue
 return this
}

Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].

@return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].

@sample
samples.comparisons.ComparableOps.coerceIn

public fun Double.coerceIn(minimumValue: Double,
maximumValue: Double): Double {
 if (minimumValue > maximumValue) throw
 IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
 minimum $minimumValue.")
 if (this < minimumValue) return minimumValue
 if (this > maximumValue)
 return maximumValue
 return this
}

Ensures that this value lies in the specified [range].

@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.

@sample
samples.comparisons.ComparableOps.coerceInFloatingPointRange

@SinceKotlin("1.1")
public fun <T :
Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {
 if (range.isEmpty()) throw
 IllegalArgumentException("Cannot coerce value to an empty range: $range.")
 return when {
 // this <
 start equiv to this <= start && !(this >= start)
 range.lessThanOrEqualTo(this, range.start) &&
 !range.lessThanOrEqualTo(range.start, this) -> range.start
 // this > end equiv to this >= end && !(this <= end)
 range.lessThanOrEqualTo(range.endInclusive, this) && !range.lessThanOrEqualTo(this, range.endInclusive) ->
 range.endInclusive
 else -> this
 }
}

Ensures that this value lies in the specified [range].

@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`

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```

if this value is greater than `range.endInclusive`.n * \n * @sample
samples.comparisons.ComparableOps.coerceInComparable\n *\npublic fun <T : Comparable<T>>
T.coerceIn(range: ClosedRange<T>): T {\n if (range is ClosedFloatingPointRange) {\n return
this.coerceIn<T>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("\Cannot coerce value to an
empty range: $range.\")\n return when {\n this < range.start -> range.start\n this > range.endInclusive ->
range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n
*\npublic fun Int.coerceIn(range: ClosedRange<Int>): Int {\n if (range is ClosedFloatingPointRange) {\n
return this.coerceIn<Int>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("\Cannot coerce
value to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this >
range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than
`range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Long.coerceIn(range: ClosedRange<Long>): Long
{\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<Long>(range)\n }\n if
(range.isEmpty()) throw IllegalArgumentException("\Cannot coerce value to an empty range: $range.\")\n return
when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else ->
this\n }\n}\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.experimental.*\n\n@Suppress("\NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n\nSinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic inline class UByte @PublishedApi internal
constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {\n\n companion object {\n /**\n
* A constant holding the minimum value an instance of UByte can have.\n */\n public const val
MIN_VALUE: UByte = UByte(0)\n\n /**\n * A constant holding the maximum value an instance of
UByte can have.\n */\n public const val MAX_VALUE: UByte = UByte(-1)\n\n /**\n * The
number of bytes used to represent an instance of UByte in a binary form.\n */\n public const val
SIZE_BYTES: Int = 1\n\n /**\n * The number of bits used to represent an instance of UByte in a binary
form.\n */\n public const val SIZE_BITS: Int = 8\n }\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
@Suppress("\OVERRIDE_BY_INLINE")\n public override inline operator fun compareTo(other: UByte): Int =
this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: UInt): Int = this.toInt().compareTo(other)\n\n /**\n * Compares
this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: ULong): Int =
this.toULong().compareTo(other)\n\n /**\n * Adds the other value to this value.\n */\n @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\n\n /**\n * Adds the other value
to this value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UShort): UInt =
this.toUInt().plus(other.toUInt())\n\n /**\n * Adds the other value to this value.\n */\n @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n\n /**\n * Adds the other value to this

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value. *^n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)\n\n /** Subtracts the other value from this value. *^n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the
other value from this value. *^n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort):
UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n
/** Subtracts the other value from this value. *^n @kotlin.internal.InlineOnly\n public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value by the other value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n
/** Multiplies this value by the other value. *^n @kotlin.internal.InlineOnly\n public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt =
this.toUInt().div(other.toUInt())\n /** Divides this value by the other value. *^n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by
the other value. *^n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)\n /** Divides this value by the other value. *^n @kotlin.internal.InlineOnly\n public
inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /** Calculates the remainder of
dividing this value by the other value. *^n @kotlin.internal.InlineOnly\n public inline operator fun rem(other:
UByte): UInt = this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other
value. *^n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /**
Calculates the remainder of dividing this value by the other value. *^n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /** Increments this value. *^n
@kotlin.internal.InlineOnly\n public inline operator fun inc(): UByte = UByte(data.inc())\n /** Decrements this
value. *^n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UByte = UByte(data.dec())\n\n /**
Creates a range from this value to the specified [other] value. *^n @kotlin.internal.InlineOnly\n public inline
operator fun rangeTo(other: UByte): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a
bitwise AND operation between the two values. *^n @kotlin.internal.InlineOnly\n public inline infix fun
and(other: UByte): UByte = UByte(this.data and other.data)\n /** Performs a bitwise OR operation between the
two values. *^n @kotlin.internal.InlineOnly\n public inline infix fun or(other: UByte): UByte = UByte(this.data
or other.data)\n\n /** Performs a bitwise XOR operation between the two values. *^n
@kotlin.internal.InlineOnly\n public inline infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)\n
/** Inverts the bits in this value. *^n @kotlin.internal.InlineOnly\n public inline fun inv(): UByte =
UByte(data.inv())\n\n /**\n * Converts this [UByte] value to [Byte].\n * \n * If this value is less than or
equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same numerical value as this
`UByte`. Otherwise the result is negative.\n * \n * The resulting `Byte` value has the same binary representation
as this `UByte` value.\n *^n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data\n /**\n
* Converts this [UByte] value to [Short].\n * \n * The resulting `Short` value represents the same numerical
value as this `UByte`.\n * \n * The least significant 8 bits of the resulting `Short` value are the same as the bits
of this `UByte` value,\n * whereas the most significant 8 bits are filled with zeros.\n *^n
@kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort() and 0xFF\n /**\n
* Converts
this [UByte] value to [Int].\n * \n * The resulting `Int` value represents the same numerical value as this
`UByte`.\n * \n * The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte`

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value, \n * whereas the most significant 24 bits are filled with zeros. \n * \n @kotlin.internal.InlineOnly \n
public inline fun toInt(): Int = data.toInt() and 0xFF \n /** \n * Converts this [UByte] value to [Long]. \n * \n
* The resulting `Long` value represents the same numerical value as this `UByte`. \n * \n * The least significant
8 bits of the resulting `Long` value are the same as the bits of this `UByte` value, \n * whereas the most significant
56 bits are filled with zeros. \n * \n @kotlin.internal.InlineOnly \n public inline fun toLong(): Long =
data.toLong() and 0xFF \n /** Returns this value. * \n @kotlin.internal.InlineOnly \n public inline fun
toUByte(): UByte = this \n /** \n * Converts this [UByte] value to [UShort]. \n * \n * The resulting `UShort`
value represents the same numerical value as this `UByte`. \n * \n * The least significant 8 bits of the resulting
`UShort` value are the same as the bits of this `UByte` value, \n * whereas the most significant 8 bits are filled
with zeros. \n * \n @kotlin.internal.InlineOnly \n public inline fun toUShort(): UShort = UShort(data.toShort()
and 0xFF) \n /** \n * Converts this [UByte] value to [UInt]. \n * \n * The resulting `UInt` value represents
the same numerical value as this `UByte`. \n * \n * The least significant 8 bits of the resulting `UInt` value are
the same as the bits of this `UByte` value, \n * whereas the most significant 24 bits are filled with zeros. \n * \n
@kotlin.internal.InlineOnly \n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF) \n /** \n *
Converts this [UByte] value to [ULong]. \n * \n * The resulting `ULong` value represents the same numerical
value as this `UByte`. \n * \n * The least significant 8 bits of the resulting `ULong` value are the same as the bits
of this `UByte` value, \n * whereas the most significant 56 bits are filled with zeros. \n * \n
@kotlin.internal.InlineOnly \n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF) \n /** \n
* Converts this [UByte] value to [Float]. \n * \n * The resulting `Float` value represents the same numerical
value as this `UByte`. \n * \n @kotlin.internal.InlineOnly \n public inline fun toFloat(): Float =
this.toInt().toFloat() \n /** \n * Converts this [UByte] value to [Double]. \n * \n * The resulting `Double`
value represents the same numerical value as this `UByte`. \n * \n @kotlin.internal.InlineOnly \n public inline
fun toDouble(): Double = this.toInt().toDouble() \n \n public override fun toString(): String =
toInt().toString() \n \n \n /** \n * Converts this [Byte] value to [UByte]. \n * \n * If this value is positive, the resulting
`UByte` value represents the same numerical value as this `Byte`. \n * \n * The resulting `UByte` value has the same
binary representation as this `Byte` value. \n
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
Byte.toUByte(): UByte = UByte(this) \n /** \n * Converts this [Short] value to [UByte]. \n * \n * If this value is
positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents \n * the same
numerical value as this `Short`. \n * \n * The resulting `UByte` value is represented by the least significant 8 bits of
this `Short` value. \n
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
Short.toUByte(): UByte = UByte(this.toByte()) \n /** \n * Converts this [Int] value to [UByte]. \n * \n * If this value is
positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents \n * the same
numerical value as this `Int`. \n * \n * The resulting `UByte` value is represented by the least significant 8 bits of this
`Int` value. \n * \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public
inline fun Int.toUByte(): UByte = UByte(this.toByte()) \n /** \n * Converts this [Long] value to [UByte]. \n * \n * If
this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents \n *
the same numerical value as this `Long`. \n * \n * The resulting `UByte` value is represented by the least significant 8
bits of this `Long` value. \n
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
Long.toUByte(): UByte = UByte(this.toByte()) \n ", " \n /** \n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file. \n * \n @n// Auto-generated file. DO NOT EDIT! \n \n package kotlin \n \n import
kotlin.experimental.* \n \n @Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS") \n @
SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public inline class UInt @PublishedApi internal
constructor(@PublishedApi internal val data: Int) : Comparable<UInt> { \n \n companion object { \n /** \n
* A constant holding the minimum value an instance of UInt can have. \n * \n public const val

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MIN_VALUE: UInt = UInt(0)\n\n /**\n * A constant holding the maximum value an instance of UInt can
have.\n */\n public const val MAX_VALUE: UInt = UInt(-1)\n\n /**\n * The number of bytes
used to represent an instance of UInt in a binary form.\n */\n public const val SIZE_BYTES: Int = 4\n\n /**\n * The number of bits used to represent an instance of UInt in a binary form.\n */\n public const
val SIZE_BITS: Int = 32\n }\n\n /**\n * Compares this value with the specified value for order.\n * Returns
zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive
number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UByte): Int = this.compareTo(other.toUInt())\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n /**\n *
Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
 @Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun
compareTo(other: UInt): Int = uintCompare(this.data, other.data)\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n /** Adds the
other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt =
this.plus(other.toUInt())\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())\n\n /** Adds the other value to this value.
*/\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt =
UInt(this.data.plus(other.data))\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other
value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt =
this.minus(other.toUInt())\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())\n\n /** Subtracts the other value
from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt =
UInt(this.data.minus(other.data))\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())\n\n /** Multiplies this value by the
other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.times(other.toUInt())\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\n\n /** Multiplies this value
by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)\n\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())\n\n /** Divides this value by the other
value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt =
this.div(other.toUInt())\n\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun div(other: UInt): UInt = uintDivide(this, other)\n\n /** Divides this value by the other value. */\n
 @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\n\n /**
Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\n\n /** Calculates the remainder of dividing
this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt
= uintRemainder(this, other)\n\n /** Calculates the remainder of dividing this value by the other value. */\n

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@kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n /** Increments this value. *\n @kotlin.internal.InlineOnly\n public inline
operator fun inc(): UInt = UInt(data.inc())\n /** Decrements this value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun dec(): UInt = UInt(data.dec())\n\n /** Creates a range from this value to the specified
[other] value. *\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UInt): UIntRange =
UIntRange(this, other)\n\n /**\n * Shifts this value left by the [bitCount] number of bits.\n *\n * Note that
only the five lowest-order bits of the [bitCount] are used as the shift distance.\n * The shift distance actually used
is therefore always in the range `0..31`.\n *\n @kotlin.internal.InlineOnly\n public inline infix fun
shl(bitCount: Int): UInt = UInt(data shl bitCount)\n\n /**\n * Shifts this value right by the [bitCount] number of
bits, filling the leftmost bits with zeros.\n *\n * Note that only the five lowest-order bits of the [bitCount] are
used as the shift distance.\n * The shift distance actually used is therefore always in the range `0..31`.\n *\n
@kotlin.internal.InlineOnly\n public inline infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n\n /**
Performs a bitwise AND operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline infix
fun and(other: UInt): UInt = UInt(this.data and other.data)\n\n /** Performs a bitwise OR operation between the two
values. *\n @kotlin.internal.InlineOnly\n public inline infix fun or(other: UInt): UInt = UInt(this.data or
other.data)\n\n /** Performs a bitwise XOR operation between the two values. *\n @kotlin.internal.InlineOnly\n
public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n\n /** Inverts the bits in this
value. *\n @kotlin.internal.InlineOnly\n public inline fun inv(): UInt = UInt(data.inv())\n\n /**\n * Converts this
[UInt] value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte`
value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `Byte` value is
represented by the least significant 8 bits of this `UInt` value.\n * Note that the resulting `Byte` value may be
negative.\n *\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n\n /**\n *
Converts this [UInt] value to [Short].\n *\n * If this value is less than or equals to [Short.MAX_VALUE], the
resulting `Short` value represents\n * the same numerical value as this `UInt`.\n *\n * The resulting `Short`
value is represented by the least significant 16 bits of this `UInt` value.\n * Note that the resulting `Short`
value may be negative.\n *\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort()\n
/**\n * Converts this [UInt] value to [Int].\n *\n * If this value is less than or equals to [Int.MAX_VALUE],
the resulting `Int` value represents\n * the same numerical value as this `UInt`. Otherwise the result is negative.\n
*\n * The resulting `Int` value has the same binary representation as this `UInt` value.\n *\n
@kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data\n\n /**\n * Converts this [UInt] value to
[Long].\n *\n * The resulting `Long` value represents the same numerical value as this `UInt`.\n *\n * The
least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,\n * whereas the
most significant 32 bits are filled with zeros.\n *\n @kotlin.internal.InlineOnly\n public inline fun toLong():
Long = data.toLong() and 0xFFFF_FFFF\n\n /**\n * Converts this [UInt] value to [UByte].\n *\n * If this
value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same
numerical value as this `UInt`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits
of this `UInt` value.\n *\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte =
data.toUByte()\n\n /**\n * Converts this [UInt] value to [UShort].\n *\n * If this value is less than or equals
to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `UInt`.\n
*\n * The resulting `UShort` value is represented by the least significant 16 bits of this `UInt` value.\n *\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = data.toUShort()\n\n /** Returns this value.
*\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = this\n\n /**\n * Converts this [UInt] value
to [ULong].\n *\n * The resulting `ULong` value represents the same numerical value as this `UInt`.\n *\n
* The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,\n *
whereas the most significant 32 bits are filled with zeros.\n *\n @kotlin.internal.InlineOnly\n public inline
fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)\n\n /**\n * Converts this [UInt] value to
[Float].\n *\n * The resulting value is the closest `Float` to this `UInt` value.\n * In case when this `UInt`
value is exactly between two `Float`s,\n * the one with zero at least significant bit of mantissa is selected.\n *\n

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 @kotlin.internal.InlineOnly public inline fun toFloat(): Float = this.toDouble().toFloat()
 /**
 * Converts this [UInt] value to [Double].
 * The resulting `Double` value represents the same numerical value as this
 * `UInt`.
 */
 @kotlin.internal.InlineOnly public inline fun toDouble(): Double = uintToDouble(data)
 public override fun toString(): String = toLong().toString()
 /**
 * Converts this [Byte] value to [UInt].
 * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Byte`.
 * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `Byte` value,
 * whereas the most significant 24 bits are filled with the sign bit of this value.
 */
 @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
 Byte.toUInt(): UInt = UInt(this.toInt())
 /**
 * Converts this [Short] value to [UInt].
 * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.
 * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,
 * whereas the most significant 16 bits are filled with the sign bit of this value.
 */
 @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
 Short.toUInt(): UInt = UInt(this.toInt())
 /**
 * Converts this [Int] value to [UInt].
 * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Int`.
 * The resulting `UInt` value has the same binary representation as this `Int` value.
 */
 @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
 Int.toUInt(): UInt = UInt(this)
 /**
 * Converts this [Long] value to [UInt].
 * If this value is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents
 * the same numerical value as this `Long`.
 * The resulting `UInt` value is represented by the least significant 32 bits of this `Long` value.
 */
 @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
 Long.toUInt(): UInt = UInt(this.toInt())
 /**
 * Converts this [Float] value to [UInt].
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Float` value is negative or `NaN`,
 * [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.
 */
 @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
 Float.toUInt(): UInt = doubleToUInt(this.toDouble())
 /**
 * Converts this [Double] value to [UInt].
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Double` value is negative or `NaN`,
 * [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.
 */
 @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
 Double.toUInt(): UInt = doubleToUInt(this)
 /**
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
 @Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
 @SinceKotlin("1.3") @ExperimentalUnsignedTypes public inline class UShort @PublishedApi internal
 constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {
 companion object {
 /**
 * A constant holding the minimum value an instance of UShort can have.
 */
 public const val MIN_VALUE: UShort = UShort(0)
 /**
 * A constant holding the maximum value an instance of UShort can have.
 */
 public const val MAX_VALUE: UShort = UShort(-1)
 /**
 * The number of bytes used to represent an instance of UShort in a binary form.
 */
 public const val SIZE_BYTES: Int = 2
 /**
 * The number of bits used to represent an instance of UShort in a binary form.
 */
 public const val SIZE_BITS: Int = 16
 }
 /**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if
 * it's less than other,
 * or a positive number if it's greater than other.
 */
 @kotlin.internal.InlineOnly public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())
 /**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 */
 @kotlin.internal.InlineOnly @Suppress("OVERRIDE_BY_INLINE") public override inline operator fun
 compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())
 /**
 * Compares this value with the

```

```

specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n *@\n @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n /**\n * Compares
this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,\n * or a positive number if it's greater than other.\n *@\n
@kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: ULong): Int =
this.toULong().compareTo(other)\n\n /** Adds the other value to this value. *@\n @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\n /** Adds the other value
to this value. *@\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UShort): UInt =
this.toUInt().plus(other.toUInt())\n /** Adds the other value to this value. *@\n @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n /** Adds the other value to this
value. *@\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)\n\n /** Subtracts the other value from this value. *@\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the
other value from this value. *@\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort):
UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. *@\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n
/** Subtracts the other value from this value. *@\n @kotlin.internal.InlineOnly\n public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value by the other value. *@\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. *@\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. *@\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n
/** Multiplies this value by the other value. *@\n @kotlin.internal.InlineOnly\n public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value. *@\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt =
this.toUInt().div(other.toUInt())\n /** Divides this value by the other value. *@\n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by
the other value. *@\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)\n /** Divides this value by the other value. *@\n @kotlin.internal.InlineOnly\n public
inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /** Calculates the remainder of
dividing this value by the other value. *@\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other:
UByte): UInt = this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other
value. *@\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value. *@\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /**
Calculates the remainder of dividing this value by the other value. *@\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /** Increments this value. *@\n
@kotlin.internal.InlineOnly\n public inline operator fun inc(): UShort = UShort(data.inc())\n /** Decrements
this value. *@\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UShort = UShort(data.dec())\n\n
/** Creates a range from this value to the specified [other] value. *@\n @kotlin.internal.InlineOnly\n public inline
operator fun rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n /** Performs a
bitwise AND operation between the two values. *@\n @kotlin.internal.InlineOnly\n public inline infix fun
and(other: UShort): UShort = UShort(this.data and other.data)\n /** Performs a bitwise OR operation between the
two values. *@\n @kotlin.internal.InlineOnly\n public inline infix fun or(other: UShort): UShort =
UShort(this.data or other.data)\n /** Performs a bitwise XOR operation between the two values. *@\n
@kotlin.internal.InlineOnly\n public inline infix fun xor(other: UShort): UShort = UShort(this.data xor

```



```

other.data)\n /** Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public inline fun inv():
UShort = UShort(data.inv())\n\n /**\n * Converts this [UShort] value to [Byte].\n *\n * If this value is less
than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n
* the same numerical value as this
`UShort`.\n *\n * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort`
value.\n
* Note that the resulting `Byte` value may be negative.\n
*/\n @kotlin.internal.InlineOnly\n public
inline fun toByte(): Byte = data.toByte()\n\n /**\n * Converts this [UShort] value to [Short].\n *\n * If this
value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n
* the same
numerical value as this `UShort`. Otherwise the result is negative.\n
*\n
* The resulting `Short` value has the
same binary representation as this `UShort` value.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun
toShort(): Short = data\n\n /**\n * Converts this [UShort] value to [Int].\n *\n * The resulting `Int` value
represents the same numerical value as this `UShort`.\n
*\n
* The least significant 16 bits of the resulting `Int`
value are the same as the bits of this `UShort` value,\n
* whereas the most significant 16 bits are filled with
zeros.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFFFF\n\n /**\n
* Converts this [UShort] value to [Long].\n *\n * The resulting `Long` value represents the same numerical
value as this `UShort`.\n
*\n
* The least significant 16 bits of the resulting `Long` value are the same as the bits
of this `UShort` value,\n
* whereas the most significant 48 bits are filled with zeros.\n
*/\n
@kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFFFF\n\n /**\n
*
Converts this [UShort] value to [UByte].\n
*\n
* If this value is less than or equals to [UByte.MAX_VALUE],
the resulting `UByte` value represents\n
* the same numerical value as this `UShort`.\n
*\n
* The resulting
`UByte` value is represented by the least significant 8 bits of this `UShort` value.\n
*/\n
@kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = data.toUByte()\n\n /** Returns this value. */\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = this\n\n /**\n * Converts this [UShort]
value to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value as this `UShort`.\n
*\n
* The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n
* whereas the most significant 16 bits are filled with zeros.\n
*/\n @kotlin.internal.InlineOnly\n public inline
fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\n\n /**\n * Converts this [UShort] value to [ULong].\n *\n
* The resulting `ULong` value represents the same numerical value as this `UShort`.\n
*\n
* The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\n
* whereas the
most significant 48 bits are filled with zeros.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun toULong():
ULong = ULong(data.toLong() and 0xFFFF)\n\n /**\n * Converts this [UShort] value to [Float].\n *\n
* The resulting `Float` value represents the same numerical value as this `UShort`.\n
*/\n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toInt().toFloat()\n\n /**\n * Converts this
[UShort] value to [Double].\n *\n * The resulting `Double` value represents the same numerical value as this
`UShort`.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
this.toInt().toDouble()\n\n public override fun toString(): String = toInt().toString()\n\n\n /**\n * Converts this
[Byte] value to [UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical
value as this `Byte`.\n
*\n
* The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`Byte` value,\n
* whereas the most significant 8 bits are filled with the sign bit of this value.\n
*/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Byte.toUShort(): UShort = UShort(this.toShort())\n\n /**\n * Converts this [Short] value to [UShort].\n *\n
* If this
value is positive, the resulting `UShort` value represents the same numerical value as this `Short`.\n
*\n
* The
resulting `UShort` value has the same binary representation as this `Short` value.\n
*/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Short.toUShort(): UShort = UShort(this)\n\n /**\n * Converts this [Int] value to [UShort].\n *\n
* If this value is
positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n
* the same
numerical value as this `Int`.\n
*\n
* The resulting `UShort` value is represented by the least significant 16 bits of
this `Int` value.\n
*/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun Int.toUShort(): UShort = UShort(this.toShort())\n\n /**\n * Converts this [Long] value to [UShort].\n *\n
* If

```

this value is positive and less than or equals to [UShort.MAX\_VALUE], the resulting `UShort` value represents the same numerical value as this `Long`. The resulting `UShort` value is represented by the least significant 16 bits of this `Long` value.

```
/*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nLong.toUShort(): UShort = UShort(this.toShort())\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin\nProgramming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\nfound in the license/LICENSE.txt file.\n * \n// Auto-generated file. DO NOT EDIT!\n\npackage\nkotlin.ranges\n\n/**\n * A range of values of type `Char`.\n */\npublic class CharRange(start: Char, endInclusive:\nChar) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {\n override val start: Char get() = first\n override val endInclusive: Char get() = last\n override fun contains(value: Char): Boolean = first <= value &&\nvalue <= last\n override fun isEmpty(): Boolean = first > last\n override fun equals(other: Any?): Boolean =\n other is CharRange && (isEmpty() && other.isEmpty()) ||\n first == other.first && last ==\nother.last\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n override fun toString(): String = "$first..$last"\n companion object {\n /** An empty range of values of\n type Char. */\n public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\n }\n}\n\n/**\n * A\nrange of values of type `Int`.\n */\npublic class IntRange(start: Int, endInclusive: Int) : IntProgression(start,\nendInclusive, 1), ClosedRange<Int> {\n override val start: Int get() = first\n override val endInclusive: Int get() =\nlast\n override fun contains(value: Int): Boolean = first <= value && value <= last\n override fun isEmpty():\nBoolean = first > last\n override fun equals(other: Any?): Boolean =\n other is IntRange && (isEmpty() &&\nother.isEmpty()) ||\n first == other.first && last == other.last\n override fun hashCode(): Int =\n if\n(isEmpty()) -1 else (31 * first + last)\n override fun toString(): String = "$first..$last"\n companion object\n{\n /** An empty range of values of type Int. */\n public val EMPTY: IntRange = IntRange(1, 0)\n }\n}\n\n/**\n * A\nrange of values of type `Long`.\n */\npublic class LongRange(start: Long, endInclusive: Long) :\nLongProgression(start, endInclusive, 1), ClosedRange<Long> {\n override val start: Long get() = first\n override\nval endInclusive: Long get() = last\n override fun contains(value: Long): Boolean = first <= value && value <=\nlast\n override fun isEmpty(): Boolean = first > last\n override fun equals(other: Any?): Boolean =\n other is LongRange && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr\n32))).toInt()\n override fun toString(): String = "$first..$last"\n companion object {\n /** An empty\n range of values of type Long. */\n public val EMPTY: LongRange = LongRange(1, 0)\n }\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is\n governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n@file:OptIn(kotlin.exper\nimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\nimport\nkotlin.random.Random\n\ninternal object EmptyIterator : ListIterator<Nothing> {\n override fun hasNext():\nBoolean = false\n override fun hasPrevious(): Boolean = false\n override fun nextIndex(): Int = 0\n override\nfun previousIndex(): Int = -1\n override fun next(): Nothing = throw NoSuchElementException()\n override fun\nprevious(): Nothing = throw NoSuchElementException()\n}\n\ninternal object EmptyList : List<Nothing>,\nSerializable, RandomAccess {\n private const val serialVersionUID: Long = -7390468764508069838L\n override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()\n override fun hashCode(): Int\n= 1\n override fun toString(): String = "[]"\n override val size: Int get() = 0\n override fun isEmpty():\nBoolean = true\n override fun contains(element: Nothing): Boolean = false\n override fun containsAll(elements:\nCollection<Nothing>): Boolean = elements.isEmpty()\n override fun get(index: Int): Nothing = throw\nIndexOutOfBoundsException("Empty list doesn't contain element at index $index.")\n override fun\nindexOf(element: Nothing): Int = -1\n override fun lastIndexOf(element: Nothing): Int = -1\n override fun\niterator(): Iterator<Nothing> = EmptyIterator\n override fun listIterator(): ListIterator<Nothing> = EmptyIterator\n override fun listIterator(index: Int): ListIterator<Nothing> {\n if (index != 0) throw\nIndexOutOfBoundsException("Index: $index")\n }\n override fun
```

```

subList(fromIndex: Int, toIndex: Int): List<Nothing> {
 if (fromIndex == 0 && toIndex == 0) return this
 throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex")
}
private fun readResolve(): Any = EmptyList()
internal fun <T> Array<out T>.asCollection(): Collection<T> =
 ArrayAsCollection(this, isVarargs = false)
private class ArrayAsCollection<T>(val values: Array<out T>, val
isVarargs: Boolean) : Collection<T> {
 override val size: Int get() = values.size
 override fun isEmpty(): Boolean = values.isEmpty()
 override fun contains(element: T): Boolean = values.contains(element)
 override fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }
 override fun iterator(): Iterator<T> = values.iterator()
 // override hidden toArray implementation to prevent copying of values array
 public fun toArray(): Array<out Any?> = values.copyToArrayOfAny(isVarargs)
}
/** Returns an empty read-only list. The returned list is serializable (JVM).
 * @sample
samples.collections.Collections.Lists.emptyReadOnlyList
*/
public fun <T> emptyList(): List<T> =
 EmptyList()
/** Returns a new read-only list of given elements. The returned list is serializable (JVM).
 * @sample
samples.collections.Collections.Lists.readOnlyList
*/
public fun <T> listOf(vararg elements: T): List<T> =
 if (elements.size > 0) elements.asList() else emptyList()
/** Returns an empty read-only list. The returned list is serializable (JVM).
 * @sample
samples.collections.Collections.Lists.emptyReadOnlyList
*/
@kotlin.internal.InlineOnly
public inline fun <T> listOf(): List<T> = emptyList()
/** Returns an empty new [MutableList].
 * @sample
samples.collections.Collections.Lists.emptyMutableList
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> mutableListOf(): MutableList<T> =
 ArrayList()
/** Returns an empty new [ArrayList].
 * @sample
samples.collections.Collections.Lists.emptyArrayList
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> arrayListOf(): ArrayList<T> =
 ArrayList()
/** Returns a new [MutableList] with the given elements.
 * @sample
samples.collections.Collections.Lists.mutableList
*/
public fun <T> mutableListOf(vararg elements: T): MutableList<T> =
 if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs =
true))
/** Returns a new [ArrayList] with the given elements.
 * @sample
samples.collections.Collections.Lists.arrayList
*/
public fun <T> arrayListOf(vararg elements: T): ArrayList<T> =
 if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))
/** Returns a new read-only list either of single given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).
 * @sample
samples.collections.Collections.Lists.listOfNotNull
*/
public fun <T : Any> listOfNotNull(element: T?): List<T> =
 if (element != null) listOf(element) else emptyList()
/** Returns a new read-only list only of those given elements, that are not null. The returned list is serializable (JVM).
 * @sample
samples.collections.Collections.Lists.listOfNotNull
*/
public fun <T : Any> listOfNotNull(vararg elements: T?): List<T> =
 elements.filterNotNull()
/** Creates a new read-only list with the specified [size], where each element is calculated by calling the specified [init] function. The function [init] is called for each list element sequentially starting from the first one. It should return the value for a list element given its index.
 * @sample
samples.collections.Collections.Lists.readOnlyListFromInitializer
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> List(size: Int, init: (index: Int) -> T): List<T> =
 MutableList(size, init)
/** Creates a new mutable list with the specified [size], where each element is calculated by calling the specified [init] function. The function [init] is called for each list element sequentially starting from the first one. It should return the value for a list element given its index.
 * @sample
samples.collections.Collections.Lists.mutableListFromInitializer
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList<T> {
 val list = ArrayList<T>(size)
 repeat(size) { index -> list.add(init(index)) }
 return list
}
/** Builds a new read-only [List] by populating a [MutableList] using the given [builderAction] and returning a read-only list with the same elements. The list passed as a receiver to the [builderAction] is valid only inside that function. Using it outside of the function produces an unspecified behavior.
 * @sample
samples.collections.Builders.Lists.buildListSample
*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E>

```

```

buildList(@BuilderInference builderAction: MutableList<E>().->Unit): List<E> {
 contract {
 callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)
 }
 return
}

buildListInternal(builderAction)
}

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
internal expect inline fun <E> buildListInternal(builderAction: MutableList<E>().->Unit):
List<E>
/**
 * Builds a new read-only [List] by populating a [MutableList] using the given [builderAction]
 * and returning a read-only list with the same elements.
 * The list passed as a receiver to the [builderAction] is
 * valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 * [capacity] is used to hint the expected number of elements added in the [builderAction].
 * @throws
 * IllegalArgumentException if the given [capacity] is negative.
 * @sample
 * samples.collections.Builders.Lists.buildListSampleWithCapacity
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E>
buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>().->Unit): List<E> {
 contract {
 callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)
 }
 return buildListInternal(capacity,
builderAction)
}

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
internal expect inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().->Unit):
List<E>
/**
 * Returns an [IntRange] of the valid indices for this collection.
 * @sample
 * samples.collections.Collections.indicesOfCollection
 */
public val Collection<*>.indices: IntRange
get() = 0..size - 1
/**
 * Returns the index of the last item in the list or -1 if the list is empty.
 * @sample
 * samples.collections.Collections.Lists.lastIndexOfList
 */
public val <T> List<T>.lastIndex: Int
get() =
this.size - 1
/**
 * Returns `true` if the collection is not empty.
 * @sample
 * samples.collections.Collections.Collections.collectionIsNotEmpty
 */
@kotlin.internal.InlineOnly
public inline
fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()
/**
 * Returns `true` if this nullable collection is
 * either null or empty.
 * @sample
 * samples.collections.Collections.Collections.collectionIsNullOrEmpty
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>?.isNullOrEmpty():
Boolean {
 contract {
 returns(false) implies (this@isNullOrEmpty != null)
 }
 return this == null ||
this.isEmpty()
}
/**
 * Returns this Collection if it's not `null` and the empty list otherwise.
 * @sample
 * samples.collections.Collections.Collections.collectionOrElse
 */
@kotlin.internal.InlineOnly
public inline fun
<T> Collection<T>?.orElse(): Collection<T> = this ?: emptyList()
/**
 * Returns this List if it's not `null` and
 * the empty list otherwise.
 * @sample
 * samples.collections.Collections.Lists.listOrElse
 */
@kotlin.internal.InlineOnly
public inline fun <T> List<T>?.orElse(): List<T> = this ?: emptyList()
/**
 * Returns this collection if it's not empty
 * or the result of calling [defaultValue] function if the collection is
 * empty.
 * @sample
 * samples.collections.Collections.Collections.collectionIfEmpty
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : Collection<*>, C : R =
if (isEmpty()) defaultValue() else this
/**
 * Checks if all
 * elements in the specified collection are contained in this collection.
 * Allows to overcome type-safety
 * restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.
 * @sample
 * samples.collections.Collections.Collections.collectionContainsAll
 */
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T>
Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)
/**
 * Returns a
 * new list with the elements of this list randomly shuffled
 * using the specified [random] instance as the source of
 * randomness.
 */
@SinceKotlin("1.3")
public fun <T> Iterable<T>.shuffled(random: Random): List<T> =
toMutableList().apply { shuffle(random) }
}

internal fun <T> List<T>.optimizeReadOnlyList() = when (size) {
 0 -> emptyList()
 1 -> listOf(this[0])
 else -> this
}
/**
 * Searches this list or its range for the provided
 * [element] using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to
 * the Comparable natural ordering of its elements,
 * otherwise the result is undefined.
 * If the list contains
 * multiple elements equal to the specified [element], there is no guarantee which one will be found.
 * `null`
 * value is considered to be less than any non-null value.
 * @return the index of the element, if it is contained in

```

the list within the specified range;\n \* otherwise, the inverted insertion point `(-insertion point - 1)`.\n \* The insertion point is defined as the index at which the element should be inserted,\n \* so that the list (or the specified subrange of list) still remains sorted.\n \* @sample

```
samples.collections.Collections.Lists.binarySearchOnComparable\n * @sample
```

```
samples.collections.Collections.Lists.binarySearchWithBoundaries\n * \npublic fun <T : Comparable<T>>
List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n
 rangeCheck(size, fromIndex, toIndex)\n\n
 var low = fromIndex\n var high = toIndex - 1\n\n
 while (low <= high) {\n
 val mid = (low + high).ushr(1) // safe from overflows\n
 val midVal = get(mid)\n
 val cmp = compareValues(midVal, element)\n\n
 if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the specified [comparator],\n * otherwise the result is undefined.\n * \n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\n * \n * `null` value is considered to be less than any non-null value.\n * \n * @return the index of the element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted according to the specified [comparator].\n * @sample
```

```
samples.collections.Collections.Lists.binarySearchWithComparator\n * \npublic fun <T>
List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n
 rangeCheck(size, fromIndex, toIndex)\n\n
 var low = fromIndex\n var high = toIndex - 1\n\n
 while (low <= high) {\n
 val mid = (low + high).ushr(1) // safe from overflows\n
 val midVal = get(mid)\n
 val cmp = comparator.compare(midVal, element)\n\n
 if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range for an element having the key returned by the specified [selector] function\n * equal to the provided [key] value using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.\n * otherwise the result is undefined.\n * \n * If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.\n * \n * `null` value is considered to be less than any non-null value.\n * \n * @return the index of the element with the specified [key], if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample
```

```
samples.collections.Collections.Lists.binarySearchByKey\n * \npublic inline fun <T, K : Comparable<K>>
List<T>.binarySearchBy(\n key: K?,\n fromIndex: Int = 0,\n toIndex: Int = size,\n crossinline selector: (T) -> K?\n): Int =\n binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\n\n// do not introduce this overload --- too rare\n//public fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>,\n//fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\n// binarySearch(fromIndex, toIndex) {\n// comparator.compare(selector(it), key) }\n\n/**\n * Searches this list or its range for an element for which the given [comparison] function returns zero using the binary search algorithm.\n * \n * The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements,\n * i.e. negative values come before zero and zeroes come before positive values.\n * \n * Otherwise, the result is undefined.\n * \n * If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.\n * \n * @param comparison function that returns zero when called on the list element being searched.\n * \n * On the elements coming before the target element, the function must return negative values;\n * on the elements coming after the target element, the function must return positive values.\n * \n * @return the index of the found element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample
```

```
samples.collections.Collections.Lists.binarySearchWithComparisonFunction\n * \npublic fun <T>
```

```

List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {
 rangeCheck(size, fromIndex, toIndex)
 var low = fromIndex
 var high = toIndex - 1
 while (low <= high) {
 val mid = (low + high).ushr(1) // safe from overflows
 val midVal = get(mid)
 val cmp = comparison(midVal)
 if (cmp < 0) low = mid + 1
 else if (cmp > 0) high = mid - 1
 else return mid // key found
 }
 return -(low + 1) // key not found
}

/** Checks that `from` and `to` are in the range of [0..size] and throws an appropriate exception, if they aren't. */
private fun rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {
 when {
 fromIndex > toIndex -> throw IllegalArgumentException("fromIndex ($fromIndex) is greater than toIndex ($toIndex).")
 fromIndex < 0 -> throw IndexOutOfBoundsException("fromIndex ($fromIndex) is less than zero.")
 toIndex > size -> throw IndexOutOfBoundsException("toIndex ($toIndex) is greater than size ($size).")
 }
}

@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkIndexOverflow(index: Int): Int

@PublishedApi
@SinceKotlin("1.3")
internal expect fun checkCountOverflow(count: Int): Int

@PublishedApi
@SinceKotlin("1.3")
internal fun throwIndexOverflow() {
 throw ArithmeticException("Index overflow has happened.")
}

@PublishedApi
@SinceKotlin("1.3")
internal fun throwCountOverflow() {
 throw ArithmeticException("Count overflow has happened.")
}

/* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")
@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)
package kotlin.collections
import kotlin.contracts.*

private object EmptyMap : Map<Any?, Nothing>, Serializable {
 private const val serialVersionUID: Long = 8246714829545688274
 override fun equals(other: Any?): Boolean = other is Map<*, *> && other.isEmpty()
 override fun hashCode(): Int = 0
 override fun toString(): String = "{}"
 override val size: Int get() = 0
 override fun isEmpty(): Boolean = true
 override fun containsKey(key: Any?): Boolean = false
 override fun containsValue(value: Nothing): Boolean = false
 override fun get(key: Any?): Nothing? = null
 override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet
 override val keys: Set<Any?> get() = EmptySet
 override val values: Collection<Nothing> get() = EmptyList

 private fun readResolve(): Any = EmptyMap
}

/** Returns an empty read-only map of specified type. */
/** The returned map is serializable (JVM). */
@sample samples.collections.Maps.Instantiation.emptyReadOnlyMap
public fun <K, V> emptyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K, V>)

/** Returns a new read-only map with the specified contents, given as a list of pairs where the first value is the key and the second is the value. If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs. Entries of the map are iterated in the order they were specified. The returned map is serializable (JVM). */
@sample samples.collections.Maps.Instantiation.mapFromPairs
public fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> = if (pairs.size > 0) pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()

/** Returns an empty read-only map. The returned map is serializable (JVM). */
@sample samples.collections.Maps.Instantiation.emptyReadOnlyMap
public inline fun <K, V> mapOf(): Map<K, V> = emptyMap()

/** Returns an empty new [MutableMap]. The returned map preserves the entry iteration order. */
@sample samples.collections.Maps.Instantiation.emptyMutableMap
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <K, V> mutableMapOf(): MutableMap<K, V> = LinkedHashMap()

/** Returns a new [MutableMap] with the specified contents, given as a list of pairs where the first component is the key and the second is the value. If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs. Entries of the map are iterated in the order they were specified. */
@sample samples.collections.Maps.Instantiation.mutableMapFromPairs
@sample samples.collections.Maps.Instantiation.emptyMutableMap
public fun <K, V> mutableMapOf(vararg pairs: Pair<K, V>): MutableMap<K, V> = LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }

/** Returns an empty new [HashMap]. */
@sample

```

```

samples.collections.Maps.Instantiation.emptyHashMap\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> hashMapOf(): HashMap<K, V>
= HashMap<K, V>()\n\n**\n * Returns a new [HashMap] with the specified contents, given as a list of pairs\n *
where the first component is the key and the second is the value.\n * \n * @sample
samples.collections.Maps.Instantiation.hashMapFromPairs\n *\npublic fun <K, V> hashMapOf(vararg pairs:
Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n**\n *
Returns an empty new [LinkedHashMap].\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline
fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\n\n**\n * Returns a new
[LinkedHashMap] with the specified contents, given as a list of pairs\n * where the first component is the key and
the second is the value.\n * \n * If multiple pairs have the same key, the resulting map will contain the value from the
last of those pairs.\n * \n * Entries of the map are iterated in the order they were specified.\n * \n * @sample
samples.collections.Maps.Instantiation.linkedMapFromPairs\n *\npublic fun <K, V> linkedMapOf(vararg pairs:
Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\n\n**\n * Builds
a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n * and returning a read-only
map with the same key-value pairs.\n * \n * The map passed as a receiver to the [builderAction] is valid only inside
that function.\n * Using it outside of the function produces an unspecified behavior.\n * \n * Entries of the map are
iterated in the order they were added by the [builderAction].\n * \n * @sample
samples.collections.Builders.Maps.buildMapSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
buildMap(@BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return
buildMapInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@koti
n.internal.InlineOnly\ninternal expect inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().->
Unit): Map<K, V>\n\n**\n * Builds a new read-only [Map] by populating a [MutableMap] using the given
[builderAction]\n * and returning a read-only map with the same key-value pairs.\n * \n * The map passed as a
receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an
unspecified behavior.\n * \n * [capacity] is used to hint the expected number of pairs added in the [builderAction].\n
*\n * Entries of the map are iterated in the order they were added by the [builderAction].\n * \n * @throws
IllegalArgumentException if the given [capacity] is negative.\n * \n * @sample
samples.collections.Builders.Maps.buildMapSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return buildMapInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineO
nly\ninternal expect inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().->
Unit): Map<K, V>\n\n**\n * Calculate the initial capacity of a map.\n *\n@PublishedApi\ninternal expect fun
mapCapacity(expectedSize: Int): Int\n\n**\n * Returns `true` if this map is not empty.\n * \n * @sample
samples.collections.Maps.Usage.mapIsNotEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
Map<out K, V>.isEmpty(): Boolean = isEmpty()\n\n**\n * Returns `true` if this nullable map is either null or
empty.\n * \n * @sample samples.collections.Maps.Usage.mapOrNullEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>?.isEmptyOrNull(): Boolean {\n contract {\n returns(false) implies (this@isEmptyOrNull != null)\n }\n\n
return this == null || isEmpty()\n}\n\n**\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n
*\n * @sample samples.collections.Maps.Usage.mapOrNullEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()\n\n**\n * Returns this map if it's not empty\n *
or the result of calling [defaultValue] function if the map is empty.\n * \n * @sample
samples.collections.Maps.Usage.mapIfEmpty\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\n if (isEmpty())

```

```

defaultValue() else this\n\n**\n * Checks if the map contains the given key.\n *\n * This method allows to use the
`x` in map` syntax for checking whether an object is contained in the map.\n *\n * @sample
samples.collections.Maps.Usage.containsKey\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun
<@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\n\n**\n *
Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K,
V>.get(key: K): V? =\n @Suppress("UNCHECKED_CAST") (this as Map<K, V>).get(key)\n\n**\n * Allows
to use the index operator for storing values in a mutable map.\n *\n@kotlin.internal.InlineOnly\npublic inline
operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {\n put(key, value)\n}\n\n**\n * Returns
`true` if the map contains the specified [key].\n *\n * Allows to overcome type-safety restriction of `containsKey`
that requires to pass a key of type `K`.\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =\n
@Suppress("UNCHECKED_CAST") (this as Map<K, *>).containsKey(key)\n\n**\n * Returns `true` if the map
maps one or more keys to the specified [value].\n *\n * Allows to overcome type-safety restriction of
`containsValue` that requires to pass a value of type `V`.\n *\n * @sample
samples.collections.Maps.Usage.containsValue\n *\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")
// false warning, extension takes precedence in some cases\n@kotlin.internal.InlineOnly\npublic inline fun <K,
@kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean =
this.containsValue(value)\n\n**\n * Removes the specified key and its corresponding value from this map.\n *\n
* @return the previous value associated with the key, or `null` if the key was not present in the map.\n\n * Allows to
overcome type-safety restriction of `remove` that requires to pass a key of type `K`.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K,
V>.remove(key: K): V? =\n @Suppress("UNCHECKED_CAST") (this as MutableMap<K,
V>).remove(key)\n\n**\n * Returns the key component of the map entry.\n *\n * This method allows to use
destructuring declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n * // do
something with the key and the value\n * }\n * ```\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <K,
V> Map.Entry<K, V>.component1(): K = key\n\n**\n * Returns the value component of the map entry.\n *\n *
This method allows to use destructuring declarations when working with maps, for example:\n * ```\n * for ((key,
value) in map) {\n * // do something with the key and the value\n * }\n * ```\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map.Entry<K, V>.component2(): V =
value\n\n**\n * Converts entry to [Pair] with key being first component and value being second.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key,
value)\n\n**\n * Returns the value for the given key, or the result of the [defaultValue] function if there was no
entry for the given key.\n *\n * @sample samples.collections.Maps.Usage.getOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>.getOrNull(key: K, defaultValue: () -> V): V
= get(key) ?: defaultValue()\n\ninternal inline fun <K, V> Map<K, V>.getOrNullNullable(key: K, defaultValue: ()
-> V): V {\n val value = get(key)\n if (value == null && !containsKey(key)) {\n return defaultValue()\n }
else {\n @Suppress("UNCHECKED_CAST")\n return value as V\n }\n}\n\n**\n * Returns the value
for the given [key] or throws an exception if there is no such key in the map.\n *\n * If the map was created by
[withDefault], resorts to its `defaultValue` provider function\n * instead of throwing an exception.\n *\n * @throws
NoSuchElementException when the map doesn't contain a value for the specified key and\n * no implicit default
value was provided for that map.\n *\n@SinceKotlin("1.1")\npublic fun <K, V> Map<K, V>.getValue(key: K): V
= getOrImplicitDefault(key)\n\n**\n * Returns the value for the given key. If the key is not found in the map, calls
the [defaultValue] function,\n * puts its result into the map under the given key and returns it.\n *\n * Note that the
operation is not guaranteed to be atomic if the map is being modified concurrently.\n *\n * @sample
samples.collections.Maps.Usage.getOrPut\n *\npublic inline fun <K, V> MutableMap<K, V>.getOrPut(key: K,
defaultValue: () -> V): V {\n val value = get(key)\n return if (value == null) {\n val answer =
defaultValue()\n put(key, answer)\n answer\n } else {\n value\n }\n}\n\n**\n * Returns an

```





```

order of the original map.\n * @sample samples.collections.Maps.Filtering.filter\n *^\npublic inline fun <K, V>
Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n return
filterTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Appends all entries not matching the given [predicate]
into the given [destination].\n *\n * @return the destination map.\n * @sample
samples.collections.Maps.Filtering.filterNotTo\n *^\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n for (element in
this) {\n if (!predicate(element)) {\n destination.put(element.key, element.value)\n }\n }\n return
destination\n}\n\n/**\n * Returns a new map containing all key-value pairs not matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample
samples.collections.Maps.Filtering.filterNot\n *^\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate:
(Map.Entry<K, V>) -> Boolean): Map<K, V> {\n return filterNotTo(LinkedHashMap<K, V>(),
predicate)\n}\n\n/**\n * Returns a new map containing all key-value pairs from the given collection of pairs.\n *\n * The returned map preserves the entry iteration order of the original collection.\n * If any of two pairs would have the
same key the last one gets added to the map.\n *^\npublic fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V>
{\n if (this is Collection) {\n return when (size) {\n 0 -> emptyMap()\n 1 -> mapOf(if (this is
List) this[0] else iterator().next())\n else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n }\n }\n return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs from the given collection of pairs.\n *^\npublic fun <K, V, M :
MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\n destination.apply {
putAll(this@toMap) }\n\n/**\n * Returns a new map containing all key-value pairs from the given array of pairs.\n
*\n * The returned map preserves the entry iteration order of the original array.\n * If any of two pairs would have
the same key the last one gets added to the map.\n *^\npublic fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K,
V> = when (size) {\n 0 -> emptyMap()\n 1 -> mapOf(this[0])\n else -> toMap(LinkedHashMap<K,
V>(mapCapacity(size)))\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs
from the given array of pairs.\n *^\npublic fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K,
V>>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap) }\n\n/**\n * Returns a new map
containing all key-value pairs from the given sequence of pairs.\n *\n * The returned map preserves the entry
iteration order of the original sequence.\n * If any of two pairs would have the same key the last one gets added to
the map.\n *^\npublic fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K,
V>()).optimizeReadOnlyMap()\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs
from the given sequence of pairs.\n *^\npublic fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K,
V>>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap) }\n\n/**\n * Returns a new read-only
map containing all key-value pairs from the original map.\n *\n * The returned map preserves the entry iteration
order of the original map.\n *^\n@SinceKotlin("1.1")\npublic fun <K, V> Map<out K, V>.toMap(): Map<K, V> =
when (size) {\n 0 -> emptyMap()\n 1 -> toSingletonMap()\n else -> toMutableMap()\n}\n\n/**\n * Returns a
new mutable map containing all key-value pairs from the original map.\n *\n * The returned map preserves the entry
iteration order of the original map.\n *^\n@SinceKotlin("1.1")\npublic fun <K, V> Map<out K,
V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs from the given map.\n *^\n@SinceKotlin("1.1")\npublic fun <K, V,
M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =\n destination.apply {
putAll(this@toMap) }\n\n/**\n * Creates a new read-only map by replacing or adding an entry to this map from a
given key-value [pair].\n *\n * The returned map preserves the entry iteration order of the original map.\n * The
[pair] is iterated in the end if it has a unique key.\n *^\npublic operator fun <K, V> Map<out K, V>.plus(pair:
Pair<K, V>): Map<K, V> =\n if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first,
pair.second) }\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given
collection of key-value [pairs].\n *\n * The returned map preserves the entry iteration order of the original map.\n
*\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.\n *^\npublic operator fun <K,
V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =\n if (this.isEmpty()) pairs.toMap() else

```

```

LinkedHashMap(this).apply { putAll(pairs) }
 * Creates a new read-only map by replacing or adding entries
 to this map from a given array of key-value [pairs].
 * The returned map preserves the entry iteration order of
 the original map.
 * Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.
 *
 * public operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =
 if (this.isEmpty())
 pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }
 * Creates a new read-only map by
 replacing or adding entries to this map from a given sequence of key-value [pairs].
 * The returned map
 preserves the entry iteration order of the original map.
 * Those [pairs] with unique keys are iterated in the end in
 the order of [pairs] sequence.
 *
 * public operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K,
 V>>): Map<K, V> =
 LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()
 * Creates
 a new read-only map by replacing or adding entries to this map from another [map].
 * The returned map
 preserves the entry iteration order of the original map.
 * Those entries of another [map] that are missing in this
 map are iterated in the end in the order of that [map].
 *
 * public operator fun <K, V> Map<out K, V>.plus(map:
 Map<out K, V>): Map<K, V> =
 LinkedHashMap(this).apply { putAll(map) }
 * Appends or replaces
 the given [pair] in this mutable map.
 *
 * @kotlin.internal.InlineOnly
 * public inline operator fun <K, V>
 MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {
 put(pair.first, pair.second)
 }
 * Appends or
 replaces all pairs from the given collection of [pairs] in this mutable map.
 *
 * @kotlin.internal.InlineOnly
 * public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {
 putAll(pairs)
 }
 * Appends or replaces all pairs from the given array of [pairs] in this mutable map.
 *
 * @kotlin.internal.InlineOnly
 * public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs:
 Array<out Pair<K, V>>) {
 putAll(pairs)
 }
 * Appends or replaces all pairs from the given sequence of
 [pairs] in this mutable map.
 *
 * @kotlin.internal.InlineOnly
 * public inline operator fun <K, V> MutableMap<in
 K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {
 putAll(pairs)
 }
 * Appends or replaces all
 entries from the given [map] in this mutable map.
 *
 * @kotlin.internal.InlineOnly
 * public inline operator fun <K,
 V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {
 putAll(map)
 }
 * Returns a map
 containing all entries of the original map except the entry with the given [key].
 *
 * The returned map preserves
 the entry iteration order of the original map.
 *
 * @SinceKotlin("1.1")
 * public operator fun <K, V> Map<out K,
 V>.minus(key: K): Map<K, V> =
 this.toMutableMap().apply { minusAssign(key)
 }.optimizeReadOnlyMap()
 * Returns a map containing all entries of the original map except those entries
 * the keys of which are contained in the given [keys] collection.
 *
 * The returned map preserves the entry
 iteration order of the original map.
 *
 * @SinceKotlin("1.1")
 * public operator fun <K, V> Map<out K,
 V>.minus(keys: Iterable<K>): Map<K, V> =
 this.toMutableMap().apply { minusAssign(keys)
 }.optimizeReadOnlyMap()
 * Returns a map containing all entries of the original map except those entries
 * the keys of which are contained in the given [keys] array.
 *
 * The returned map preserves the entry iteration
 order of the original map.
 *
 * @SinceKotlin("1.1")
 * public operator fun <K, V> Map<out K, V>.minus(keys:
 Array<out K>): Map<K, V> =
 this.toMutableMap().apply { minusAssign(keys)
 }.optimizeReadOnlyMap()
 * Returns a map containing all entries of the original map except those entries
 * the keys of which are contained in the given [keys] sequence.
 *
 * The returned map preserves the entry
 iteration order of the original map.
 *
 * @SinceKotlin("1.1")
 * public operator fun <K, V> Map<out K,
 V>.minus(keys: Sequence<K>): Map<K, V> =
 this.toMutableMap().apply { minusAssign(keys)
 }.optimizeReadOnlyMap()
 * Removes the entry with the given [key] from this mutable map.
 *
 * @SinceKotlin("1.1")
 * @kotlin.internal.InlineOnly
 * public inline operator fun <K, V> MutableMap<K,
 V>.minusAssign(key: K) {
 remove(key)
 }
 * Removes all entries the keys of which are contained in
 the given [keys] collection from this mutable map.
 *
 * @SinceKotlin("1.1")
 * @kotlin.internal.InlineOnly
 * public inline operator fun <K, V> MutableMap<K,
 V>.minusAssign(keys: Iterable<K>) {
 this.keys.removeAll(keys)
 }
 * Removes all entries the keys of
 which are contained in the given [keys] array from this mutable map.
 *
 * @SinceKotlin("1.1")
 * @kotlin.internal.InlineOnly
 * public inline operator fun <K, V> MutableMap<K,
 V>.minusAssign(keys: Array<out K>) {
 this.keys.removeAll(keys)
 }
 * Removes all entries from the

```

keys of which are contained in the given [keys] sequence from this mutable map.\n

```
\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Sequence<K>) {\n this.keys.removeAll(keys)\n}\n\n// do not expose for now\n@PublishedApi\ninternal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {\n 0 -> emptyMap()\n 1 -> toSingletonMapOrSelf()\n else -> this\n}\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin\nProgramming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\nfound in the license/LICENSE.txt file.\n
```

```
\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SetsKt")\n@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.\n\ninternal object\nEmptySet : Set<Nothing>, Serializable {\n private const val serialVersionUID: Long =\n
```

```
3406603774387020532\n\n override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\n\n override fun hashCode(): Int = 0\n\n override fun toString(): String = "[]"\n\n override val size: Int get() = 0\n\n override fun isEmpty(): Boolean = true\n\n override fun contains(element: Nothing): Boolean = false\n\n override\nfun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\n\n override fun iterator():\nIterator<Nothing> = EmptyIterator\n\n private fun readResolve(): Any = EmptySet\n}\n\n/**\n * Returns an\nempty read-only set. The returned set is serializable (JVM).\n * @sample\n
```

```
samples.collections.Collections.Sets.emptyReadOnlySet\n\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the\norder they were specified.\n * The returned set is serializable (JVM).\n * @sample\n
```

```
samples.collections.Collections.Sets.emptyReadOnlySet\n\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the\norder they were specified.\n * The returned set is serializable (JVM).\n * @sample\n
```

```
samples.collections.Collections.Sets.emptyReadOnlySet\n\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the\norder they were specified.\n * The returned set is serializable (JVM).\n * @sample\n
```

```
samples.collections.Collections.Sets.emptyReadOnlySet\n\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the\norder they were specified.\n * The returned set is serializable (JVM).\n * @sample\n
```

```
samples.collections.Collections.Sets.emptyReadOnlySet\n\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the\norder they were specified.\n * The returned set is serializable (JVM).\n * @sample\n
```

```
samples.collections.Collections.Sets.emptyMutableSet\n\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are\niterated in the order they were specified.\n * @sample\n
```

```
samples.collections.Collections.Sets.mutableSet\n\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are\niterated in the order they were specified.\n * @sample\n
```

```
samples.collections.Collections.Sets.mutableSet\n\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are\niterated in the order they were specified.\n * @sample\n
```

```
samples.collections.Collections.Sets.mutableSet\n\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are\niterated in the order they were specified.\n * @sample\n
```

```
samples.collections.Collections.Sets.mutableSet\n\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are\niterated in the order they were specified.\n * @sample\n
```

```
samples.collections.Collections.Sets.mutableSet\n\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are\niterated in the order they were specified.\n * @sample\n
```

```
samples.collections.Collections.Sets.mutableSet\n\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are\niterated in the order they were specified.\n * @sample\n
```

```
samples.collections.Collections.Sets.mutableSet\n\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are\niterated in the order they were specified.\n * @sample\n
```

```
samples.collections.Collections.Sets.mutableSet\n\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are\niterated in the order they were specified.\n * @sample\n
```

```
samples.collections.Collections.Sets.mutableSet\n\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are\niterated in the order they were specified.\n * @sample\n
```

```

function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * Elements of the set are
iterated in the order they were added by the [builderAction].\n *\n * @sample
samples.collections.Builders.Sets.buildSetSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>
buildSet(@BuilderInference builderAction: MutableSet<E>().-> Unit): Set<E> {\n contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return
buildSetInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin
.internal.InlineOnly\ninternal expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>().-> Unit):
Set<E>\n\n/**\n * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n *
and returning a read-only set with the same elements.\n *\n * The set passed as a receiver to the [builderAction] is
valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n *
[capacity] is used to hint the expected number of elements added in the [builderAction].\n *\n * Elements of the set
are iterated in the order they were added by the [builderAction].\n *\n * @throws IllegalArgumentException if the
given [capacity] is negative.\n *\n * @sample samples.collections.Builders.Sets.buildSetSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>
buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>().-> Unit): Set<E> {\n contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return buildSetInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineO
nly\ninternal expect inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().-> Unit):
Set<E>\n\n/**\n * Returns this Set if it's not `null` and the empty set otherwise.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\n\ninternal
fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\n 0 -> emptySet()\n 1 -> setOf(iterator().next())\n
else -> this\n}\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("PLATFOR
M_CLASS_MAPPED_TO_KOTLIN")\n\npackage kotlin.text\n\n/**\n * Parses the string as a signed [Byte]
number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n@SinceKotlin("1.1")\npublic fun String.toByteArrayOrNull(): Byte? = toByteOrNull(radix = 10)\n\n/**\n * Parses
the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n *\n@SinceKotlin("1.1")\npublic fun String.toByteArrayOrNull(radix: Int): Byte? {\n val int =
this.toIntOrNull(radix) ?: return null\n if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\n
return int.toByteArray()\n}\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the string
is not a valid representation of a number.\n *\n@SinceKotlin("1.1")\npublic fun String.toShortOrNull(): Short? =
toShortOrNull(radix = 10)\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the
string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.\n *\n@SinceKotlin("1.1")\npublic fun String.toShortOrNull(radix:
Int): Short? {\n val int = this.toIntOrNull(radix) ?: return null\n if (int < Short.MIN_VALUE || int >
Short.MAX_VALUE) return null\n return int.toShort()\n}\n\n/**\n * Parses the string as an [Int] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n@SinceKotlin("1.1")\npublic fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)\n\n/**\n * Parses the
string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.1")\npublic fun String.toIntOrNull(radix: Int): Int? {\n checkRadix(radix)\n\n val length
= this.length\n if (length == 0) return null\n val start: Int\n val isNegative: Boolean\n val limit: Int\n val
firstChar = this[0]\n if (firstChar < '0') { // Possible leading sign\n if (length == 1) return null // non-digit
(possible sign) only, no digits after\n start = 1\n if (firstChar == '-') {\n isNegative = true\n
limit = Int.MIN_VALUE\n } else if (firstChar == '+') {\n isNegative = false\n limit = -

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Int.MAX_VALUE\n } else\n return null\n } else {\n start = 0\n isNegative = false\n limit
= -Int.MAX_VALUE\n }\n\n val limitForMaxRadix = (-Int.MAX_VALUE) / 36\n var limitBeforeMul =
limitForMaxRadix\n var result = 0\n for (i in start until length) {\n val digit = digitOf(this[i], radix)\n\n
if (digit < 0) return null\n if (result < limitBeforeMul) {\n if (limitBeforeMul == limitForMaxRadix) {\n
 limitBeforeMul = limit / radix\n\n if (result < limitBeforeMul) {\n return null\n
 }\n } else {\n return null\n }\n }\n result *= radix\n\n if (result < limit + digit)
return null\n result -= digit\n }\n return if (isNegative) result else -result\n}\n\n/**\n * Parses the string
as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*/\n@SinceKotlin("1.1")\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n\n/**\n * Parses the string
as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n */\n@SinceKotlin("1.1")\npublic fun String.toLongOrNull(radix: Int): Long? {\n
 checkRadix(radix)\n\n val length = this.length\n if (length == 0) return null\n\n val start: Int\n val isNegative:
Boolean\n val limit: Long\n val firstChar = this[0]\n if (firstChar < '0') { // Possible leading sign\n if
(length == 1) return null // non-digit (possible sign) only, no digits after\n start = 1\n if (firstChar == '-')
{\n isNegative = true\n limit = Long.MIN_VALUE\n } else if (firstChar == '+') {\n
 isNegative = false\n limit = -Long.MAX_VALUE\n } else\n return null\n } else {\n start =
0\n isNegative = false\n limit = -Long.MAX_VALUE\n }\n\n val limitForMaxRadix = (-
Long.MAX_VALUE) / 36\n var limitBeforeMul = limitForMaxRadix\n var result = 0L\n for (i in start until
length) {\n val digit = digitOf(this[i], radix)\n\n if (digit < 0) return null\n if (result < limitBeforeMul)
{\n if (limitBeforeMul == limitForMaxRadix) {\n limitBeforeMul = limit / radix\n\n if
(result < limitBeforeMul) {\n return null\n }\n } else {\n return null\n
 }\n }\n result *= radix\n\n if (result < limit + digit) return null\n result -= digit\n }\n
 return if (isNegative) result else -result\n}\n\ninternal fun numberFormatException(input: String): Nothing = throw
NumberFormatException("Invalid number format: '$input')\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\n@file:kotlin.jvm.JvmName("UnsignedKt")\n@file:OptIn(ExperimentalUnsignedTypes::class)\npackage
kotlin\n\n@PublishedApi\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor
Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n\n@PublishedApi\ninternal fun ulongCompare(v1: Long,
v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\n\n@PublishedApi\ninternal
fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\n\n@PublishedApi\ninternal fun
uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n// Division and remainder are
based on Guava's UnsignedLongs implementation\n// Copyright 2011 The Guava
Authors\n\n@PublishedApi\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong {\n val dividend =
v1.toLong()\n val divisor = v2.toLong()\n if (divisor < 0) { // i.e., divisor >= 2^63\n return if (v1 < v2)
ULong(0) else ULong(1)\n }\n\n // Optimization - use signed division if both dividend and divisor < 2^63\n if
(dividend >= 0) {\n return ULong(dividend / divisor)\n }\n\n // Otherwise, approximate the quotient, check,
and correct if necessary.\n val quotient = ((dividend ushr 1) / divisor) shl 1\n val rem = dividend - quotient *
divisor\n return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)\n}\n\n@PublishedApi\ninternal
fun ulongRemainder(v1: ULong, v2: ULong): ULong {\n val dividend = v1.toLong()\n val divisor =
v2.toLong()\n if (divisor < 0) { // i.e., divisor >= 2^63\n return if (v1 < v2) {\n v1 // dividend <
divisor\n } else {\n v1 - v2 // dividend >= divisor\n }\n }\n\n // Optimization - use signed
modulus if both dividend and divisor < 2^63\n if (dividend >= 0) {\n return ULong(dividend % divisor)\n
 }\n\n // Otherwise, approximate the quotient, check, and correct if necessary.\n val quotient = ((dividend ushr 1)
/ divisor) shl 1\n val rem = dividend - quotient * divisor\n return ULong(rem - if (ULong(rem) >=
ULong(divisor)) divisor else 0)\n}\n\n@PublishedApi\ninternal fun doubleToUInt(v: Double): UInt = when {\n
v.isNaN() -> 0u\n v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\n v >=

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UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE\n v <= Int.MAX_VALUE -> v.toInt().toUInt()\n else -
> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt() // Int.MAX_VALUE < v <
UInt.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun doubleToULong(v: Double): ULong = when {\n
v.isNaN() -> 0u\n v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\n v >=
ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\n v < Long.MAX_VALUE ->
v.toLong().toULong()\n\n // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not
representable in Double, so don't handle them.\n else -> (v - 9223372036854775808.0).toLong().toULong() +
9223372036854775808uL // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE\n}\n\n\n@PublishedApi\ninternal fun uintToDouble(v: Int): Double = (v and
Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\n\n@PublishedApi\ninternal fun
ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\n\n\ninternal fun
ulongToString(v: Long): String = ulongToString(v, 10)\n\n\ninternal fun ulongToString(v: Long, base: Int): String {\n
 if (v >= 0) return v.toString(base)\n var quotient = ((v ushr 1) / base) shl 1\n var rem = v - quotient * base\n
if (rem >= base) {\n rem -= base\n quotient += 1\n }\n return quotient.toString(base) +
rem.toString(base)\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance that returns values through
the [Iterator]\n * provided by that function.\n * @sample samples.collections.Iterables.Building.iterable\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T>
= object : Iterable<T> {\n override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * A wrapper over another
[Iterable] (or any other object that can produce an [Iterator]) that returns\n * an indexing iterator.\n */\n\ninternal class
IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\n override
fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\n}\n\n/**\n * Returns the size of
this iterable if it is known, or `null` otherwise.\n */\n\n@PublishedApi\ninternal fun <T>
Iterable<T>.collectionSizeOrNull(): Int? = if (this is Collection<*>) this.size else null\n\n/**\n * Returns the size of
this iterable if it is known, or the specified [default] value otherwise.\n */\n\n@PublishedApi\ninternal fun <T>
Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\n\n/**
Returns true when it's safe to convert this collection to a set without changing contains method behavior.\n */\n\nprivate
fun <T> Collection<T>.safeToConvertToSet() = size > 2 && this is ArrayList\n\n/**\n * Converts this collection to a
set, when it's worth so and it doesn't change contains method behavior.\n */\n\ninternal fun <T>
Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\n when (this) {\n is
Set -> this\n is Collection -> when {\n source is Collection && source.size < 2 -> this\n
 else -> if (this.safeToConvertToSet()) toHashSet() else this\n }\n else -> toHashSet()\n }\n\n/**
Converts this collection to a set, when it's worth so and it doesn't change contains method behavior.\n */\n\ninternal fun
<T> Iterable<T>.convertToSetForSetOperation(): Collection<T> =\n when (this) {\n is Set -> this\n is
Collection -> if (this.safeToConvertToSet()) toHashSet() else this\n else -> toHashSet()\n }\n\n/**\n *
Returns a single list of all elements from all collections in the given collection.\n * @sample
samples.collections.Iterables.Operations.flattenIterable\n */\n\npublic fun <T> Iterable<Iterable<T>>.flatten():
List<T> {\n val result = ArrayList<T>()\n for (element in this) {\n result.addAll(element)\n }\n return
result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this
collection,\n * *second* list is built from the second values of each pair from this collection.\n * @sample
samples.collections.Iterables.Operations.unzipIterable\n */\n\npublic fun <T, R> Iterable<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n val expectedSize = collectionSizeOrDefault(10)\n val listT =
ArrayList<T>(expectedSize)\n val listR = ArrayList<R>(expectedSize)\n for (pair in this) {\n
listT.add(pair.first)\n listR.add(pair.second)\n }\n return listT to listR\n}\n\n", "/*\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the

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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage
kotlin.sequences\n\nimport kotlin.random.Random\n\n/**\n * Given an [iterator] function constructs a [Sequence]
that returns values through the [Iterator]\n * provided by that function.\n * The values are evaluated lazily, and the
sequence is potentially infinite.\n */\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>):
Sequence<T> = object : Sequence<T> {\n override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * Creates a
sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.\n */\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n *\npublic fun <T>
Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()\n\n/**\n * Creates a sequence that
returns the specified values.\n */\n * @sample samples.collections.Sequences.Building.sequenceOfValues\n*\npublic fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else
elements.asSequence()\n\n/**\n * Returns an empty sequence.\n */\n\npublic fun <T> emptySequence():
Sequence<T> = EmptySequence\n\nprivate object EmptySequence : Sequence<Nothing>,
DropTakeSequence<Nothing> {\n override fun iterator(): Iterator<Nothing> = EmptyIterator\n override fun
drop(n: Int) = EmptySequence\n override fun take(n: Int) = EmptySequence\n}\n\n/**\n * Returns this sequence if
it's not `null` and the empty sequence otherwise.\n */\n * @sample
samples.collections.Sequences.Usage.sequenceOrEmpty\n*\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>?.orEmpty():
Sequence<T> = this ?: emptySequence()\n\n/**\n * Returns a sequence that iterates through the elements either of
this sequence\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\n */\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n*\n\n@SinceKotlin("1.3")\npublic fun
<T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\n val iterator =
this@ifEmpty.iterator()\n if (iterator.hasNext()) {\n yieldAll(iterator)\n } else {\n yieldAll(defaultValue())\n }\n}\n\n/**\n * Returns a sequence of all elements from all sequences in this
sequence.\n */\n * The operation is _intermediate_ and _stateless_.
*\n * @sample
samples.collections.Sequences.Transformations.flattenSequenceOfSequences\n *\npublic fun <T>
Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n/**\n * Returns a sequence of all
elements from all iterables in this sequence.\n */\n * The operation is _intermediate_ and _stateless_.
*\n * @sample samples.collections.Sequences.Transformations.flattenSequenceOfLists\n*\n\n@kotlin.jvm.JvmName("flattenSequenceOfIterable")\npublic fun <T> Sequence<Iterable<T>>.flatten():
Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>):
Sequence<R> {\n if (this is TransformingSequence<*, *>) {\n return (this as TransformingSequence<*,
T>).flatten(iterator)\n }\n return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists,
where\n * *first* list is built from the first values of each pair from this sequence,\n * *second* list is built from the
second values of each pair from this sequence.\n */\n * The operation is _terminal_.
*\n * @sample
samples.collections.Sequences.Transformations.unzip\n *\npublic fun <T, R> Sequence<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n val listT = ArrayList<T>()\n val listR = ArrayList<R>()\n for (pair in this) {\n listT.add(pair.first)\n listR.add(pair.second)\n }\n return listT to listR\n}\n\n/**\n * Returns a sequence that
yields elements of this sequence randomly shuffled.
*\n * Note that every iteration of the sequence returns
elements in a different order.
*\n * The operation is _intermediate_ and _stateful_.
*\n\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)\n\n/**\n * Returns a sequence that yields elements of this sequence randomly shuffled\n * using the specified [random]
instance as the source of randomness.
*\n * Note that every iteration of the sequence returns elements in a
different order.
*\n * The operation is _intermediate_ and _stateful_.
*\n\n@SinceKotlin("1.4")\npublic fun <T>
Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {\n val buffer = toMutableList()\n while (buffer.isNotEmpty()) {\n val j = random.nextInt(buffer.size)\n val last =
@OptIn(ExperimentalStdlibApi::class) buffer.removeLast()\n val value = if (j < buffer.size) buffer.set(j, last)
```



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else last\n yield(value)\n }\n}\n\n/**\n * A sequence that returns the values from the underlying [sequence]
that either match or do not match\n * the specified [predicate].\n * @param sendWhen If `true`, values for which
the predicate returns `true` are returned. Otherwise,\n * values for which the predicate returns `false` are returned\n
*/\n\ninternal class FilteringSequence<T>(\n private val sequence: Sequence<T>,\n private val sendWhen:
Boolean = true,\n private val predicate: (T) -> Boolean)\n : Sequence<T> {\n\n override fun iterator():
Iterator<T> = object : Iterator<T> {\n val iterator = sequence.iterator()\n var nextState: Int = -1 // -1 for
unknown, 0 for done, 1 for continue\n var nextItem: T? = null\n\n private fun calcNext() {\n while
(iterator.hasNext()) {\n val item = iterator.next()\n if (predicate(item) == sendWhen) {\n
 nextItem = item\n nextState = 1\n return\n }\n }\n nextState = 0\n }\n\n override fun next(): T {\n if (nextState == -1)\n calcNext()\n if (nextState == 0)\n throw NoSuchElementException()\n val result = nextItem\n nextItem = null\n nextState
= -1\n @SuppressWarnings("UNCHECKED_CAST")\n return result as T\n }\n\n override fun
hasNext(): Boolean {\n if (nextState == -1)\n calcNext()\n return nextState == 1\n }\n }\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying [sequence].\n */\n\ninternal class TransformingSequence<T, R>\nconstructor(private val
sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {\n override fun iterator(): Iterator<R>
= object : Iterator<R> {\n val iterator = sequence.iterator()\n override fun next(): R {\n return
transformer(iterator.next())\n }\n\n override fun hasNext(): Boolean {\n return iterator.hasNext()\n }\n }\n\n internal fun <E> flatten(iterator: (R) -> Iterator<E>): Sequence<E> {\n return
FlatteningSequence<T, R, E>(sequence, transformer, iterator)\n }\n}\n\n/**\n * A sequence which returns the
results of applying the given [transformer] function to the values\n * in the underlying [sequence], where the
transformer function takes the index of the value in the underlying\n * sequence along with the value itself.\n
*/\n\ninternal class TransformingIndexedSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private
val transformer: (Int, T) -> R) : Sequence<R> {\n override fun iterator(): Iterator<R> = object : Iterator<R> {\n
 val iterator = sequence.iterator()\n var index = 0\n override fun next(): R {\n return
transformer(checkIndexOverflow(index++), iterator.next())\n }\n\n override fun hasNext(): Boolean {\n
 return iterator.hasNext()\n }\n }\n}\n\n/**\n * A sequence which combines values from the underlying
[sequence] with their indices and returns them as\n * [IndexedValue] objects.\n */\n\ninternal class
IndexingSequence<T>\nconstructor(private val sequence: Sequence<T>) : Sequence<IndexedValue<T>> {\n override fun
iterator(): Iterator<IndexedValue<T>> = object : Iterator<IndexedValue<T>> {\n val iterator =
sequence.iterator()\n var index = 0\n override fun next(): IndexedValue<T> {\n return
IndexedValue(checkIndexOverflow(index++), iterator.next())\n }\n\n override fun hasNext(): Boolean {\n
 return iterator.hasNext()\n }\n }\n}\n\n/**\n * A sequence which takes the values from two parallel
underlying sequences, passes them to the given\n * [transform] function and returns the values returned by that
function. The sequence stops returning\n * values as soon as one of the underlying sequences stops returning
values.\n */\n\ninternal class MergingSequence<T1, T2, V>\nconstructor(\n private val sequence1:
Sequence<T1>,\n private val sequence2: Sequence<T2>,\n private val transform: (T1, T2) -> V)\n :
Sequence<V> {\n override fun iterator(): Iterator<V> = object : Iterator<V> {\n val iterator1 =
sequence1.iterator()\n val iterator2 = sequence2.iterator()\n override fun next(): V {\n return
transform(iterator1.next(), iterator2.next())\n }\n\n override fun hasNext(): Boolean {\n return
iterator1.hasNext() && iterator2.hasNext()\n }\n }\n}\n\ninternal class FlatteningSequence<T, R,
E>\nconstructor(\n private val sequence: Sequence<T>,\n private val transformer: (T) -> R,\n private val
iterator: (R) -> Iterator<E>)\n : Sequence<E> {\n override fun iterator(): Iterator<E> = object : Iterator<E> {\n
 val iterator = sequence.iterator()\n var itemIterator: Iterator<E>? = null\n override fun
next(): E {\n if (!ensureItemIterator())\n throw NoSuchElementException()\n return
itemIterator!!.next()\n }\n\n override fun hasNext(): Boolean {\n return ensureItemIterator()\n }\n\n private fun
ensureItemIterator(): Boolean {\n if (itemIterator?.hasNext() == false)\n itemIterator = null\n while (itemIterator == null) {\n if (!iterator.hasNext())\n return false\n } else {\n

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 val element = iterator.next()\n val nextItemIterator = iterator(transformer(element))\n if (nextItemIterator.hasNext()) {\n itemIterator = nextItemIterator\n return true\n }\n }\n }\n return true\n }\n }\n}\n\ninternal fun <T, C, R> flatMapIndexed(source: Sequence<T>, transform: (Int, T) -> C, iterator: (C) -> Iterator<R>): Sequence<R> =\n sequence {\n var\n index = 0\n for (element in source) {\n val result = transform(checkIndexOverflow(index++), element)\n yieldAll(iterator(result))\n }\n }\n\n/**\n * A sequence that supports drop(n) and take(n) operations\n *\n internal interface DropTakeSequence<T> : Sequence<T> {\n fun drop(n: Int): Sequence<T>\n fun take(n: Int): Sequence<T>\n}\n\n/**\n * A sequence that skips [startIndex] values from the underlying [sequence]\n * and stops returning values right before [endIndex], i.e. stops at `endIndex - 1`\n *\n internal class SubSequence<T>(\n private val sequence: Sequence<T>,\n private val startIndex: Int,\n private val endIndex: Int\n) : Sequence<T>,\n DropTakeSequence<T> {\n init {\n require(startIndex >= 0) { \"startIndex should be non-negative, but is\n $startIndex\" }\n require(endIndex >= 0) { \"endIndex should be non-negative, but is\n $endIndex\" }\n require(endIndex >= startIndex) { \"endIndex should be not less than\n startIndex, but was $endIndex < $startIndex\" }\n }\n private val count: Int get() = endIndex - startIndex\n override fun drop(n: Int): Sequence<T> = if\n (>= count) emptySequence() else SubSequence(sequence, startIndex + n,\n endIndex)\n override fun take(n: Int): Sequence<T> = if (n >= count) this else\n SubSequence(sequence, startIndex, startIndex + n)\n override fun\n iterator() = object : Iterator<T> {\n val iterator = sequence.iterator()\n var position = 0\n //\n Shouldn't be called from constructor to avoid premature iteration\n private fun drop() {\n while (position\n < startIndex && iterator.hasNext()) {\n iterator.next()\n position++\n }\n }\n override fun hasNext(): Boolean {\n drop()\n return (position < endIndex) && iterator.hasNext()\n }\n override fun next(): T {\n drop()\n if (position >= endIndex)\n throw\n NoSuchElementException()\n position++\n return iterator.next()\n }\n }\n}\n\n/**\n * A\n sequence that returns at most [count] values from the underlying [sequence],\n and stops returning values\n * as soon as that count is reached.\n *\n internal class TakeSequence<T>(\n private val sequence: Sequence<T>,\n private\n val count: Int\n) : Sequence<T>,\n DropTakeSequence<T> {\n init {\n require(count >= 0) { \"count must be\n non-negative, but was $count.\" }\n }\n override fun drop(n: Int): Sequence<T> = if (n >= count)\n emptySequence() else SubSequence(sequence, n, count)\n override fun take(n: Int): Sequence<T> = if (n >=\n count) this else TakeSequence(sequence, n)\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n var left = count\n val iterator = sequence.iterator()\n override fun next(): T {\n if (left == 0)\n throw NoSuchElementException()\n left--\n return iterator.next()\n }\n }\n}\n\n/**\n * A sequence that\n returns values from the underlying [sequence] while the [predicate] function\n returns\n * `true`, and stops returning values once the function returns `false` for\n the next element.\n *\n internal class\n TakeWhileSequence<T>(\n constructor(\n private val sequence: Sequence<T>,\n private val predicate: (T) ->\n Boolean\n) : Sequence<T> {\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val iterator =\n sequence.iterator()\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for\n continue\n var nextItem: T? = null\n private fun calcNext() {\n if (iterator.hasNext()) {\n val item =\n iterator.next()\n if (predicate(item)) {\n nextState = 1\n nextItem =\n item\n return\n }\n nextState = 0\n }\n }\n override fun next(): T {\n if (nextState == -1)\n calcNext() // will change nextState\n if (nextState == 0)\n throw NoSuchElementException()\n @SuppressWarnings(\"UNCHECKED_CAST\")\n val result = nextItem as T\n // Clean next to avoid keeping\n reference on yielded instance\n nextItem = null\n nextState = -1\n return result\n }\n }\n}\n\n/**\n * A sequence that\n skips the specified number of values from the underlying [sequence] and\n returns\n * all values after that.\n *\n internal class DropSequence<T>(\n private val\n sequence: Sequence<T>,\n private val count: Int\n) : Sequence<T>,\n DropTakeSequence<T> {\n init {\n require(count >= 0) { \"count must be non-negative, but was\n $count.\" }\n }\n override fun drop(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0)\n DropSequence(this, n) else DropSequence(sequence, n1) }\n}

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override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else
SubSequence(sequence, count, n1) }
override fun iterator(): Iterator<T> = object : Iterator<T> {
 val iterator = sequence.iterator()
 var left = count // Shouldn't be called from constructor to avoid
 premature iteration
 private fun drop() {
 while (left > 0 && iterator.hasNext()) {
 iterator.next()
 left--
 }
 }
 override fun next(): T {
 drop()
 return
 iterator.next()
 }
 override fun hasNext(): Boolean {
 drop()
 return iterator.hasNext()
 }
}
}

/** A sequence that skips the values from the underlying [sequence] while the given
[predicate] returns `true` and returns all values after that. */
internal class
DropWhileSequence<T> {
 constructor(
 private val sequence: Sequence<T>,
 private val predicate: (T) ->
 Boolean
) : Sequence<T> {
 override fun iterator(): Iterator<T> = object : Iterator<T> {
 val iterator =
 sequence.iterator()
 var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration
 var nextItem: T? = null
 private fun drop() {
 while (iterator.hasNext()) {
 val item =
 iterator.next()
 if (!predicate(item)) {
 nextItem = item
 dropState = 1
 }
 }
 dropState = 0
 }
 override fun next(): T {
 if
 (dropState == -1) drop()
 if (dropState == 1) {
 @Suppress("UNCHECKED_CAST")
 val result = nextItem as T
 nextItem = null
 dropState = 0
 return result
 }
 return iterator.next()
 }
 override fun
 hasNext(): Boolean {
 if (dropState == -1) drop()
 return dropState == 1 ||
 iterator.hasNext()
 }
 }
 }
}

internal class DistinctSequence<T, K>(
 private val source: Sequence<T>,
 private val keySelector: (T) -> K
) : Sequence<T> {
 override fun iterator(): Iterator<T> =
 DistinctIterator(source.iterator(), keySelector)
}

private class DistinctIterator<T, K>(
 private val source:
 Iterator<T>,
 private val keySelector: (T) -> K
) : AbstractIterator<T>() {
 private val observed =
 HashSet<K>()
 override fun computeNext() {
 while (source.hasNext()) {
 val next =
 source.next()
 val key = keySelector(next)
 if (observed.add(key)) {
 setNext(next)
 }
 }
 done()
 }
}

private class GeneratorSequence<T : Any>(
 private val
 getInitialValue: () -> T?,
 private val getNextValue: (T) -> T?
) : Sequence<T> {
 override fun iterator():
 Iterator<T> = object : Iterator<T> {
 var nextItem: T? = null
 var nextState: Int = -2 // -2 for initial
 unknown, -1 for next unknown, 0 for done, 1 for continue
 private fun calcNext() {
 nextItem = if
 (nextState == -2) getInitialValue() else getNextValue(nextItem!!)
 nextState = if (nextItem == null) 0 else
 1
 }
 override fun next(): T {
 if (nextState < 0) calcNext()
 if (nextState
 == 0) throw NoSuchElementException()
 val result = nextItem as T // Do not clean
 nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue
 nextState = -1
 return result
 }
 override fun hasNext(): Boolean {
 if (nextState < 0)
 calcNext()
 return nextState == 1
 }
 }
}

/** Returns a wrapper sequence that provides
values of this sequence, but ensures it can be iterated only one time. */
/** The operation is _intermediate_ and
stateless. */
/** [IllegalStateException] is thrown on iterating the returned sequence from the second time. */
public fun <T> Sequence<T>.constrainOnce(): Sequence<T> {
 // as? does not work in js
 //return this as?
 ConstrainedOnceSequence<T>? {
 ConstrainedOnceSequence(this)
 }
 return if (this is
 ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)
}

/** Returns a sequence which
invokes the function to calculate the next value on each iteration until the function returns `null`. */
/** The
returned sequence is constrained to be iterated only once. */
/** @see constrainOnce */
/** @see
kotlin.sequences.sequence */
/** @sample samples.collections.Sequences.Building.generateSequence */
public fun <T : Any> generateSequence(
 nextFunction: () -> T?
) : Sequence<T> {
 return
 GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()
}

/** Returns a sequence defined by
the starting value [seed] and the function [nextFunction], which is invoked to calculate the next value based on
the previous one on each iteration. */
/** The sequence produces values until it encounters first `null` value. */
/** If
[seed] is `null`, an empty sequence is produced. */
/** The sequence can be iterated multiple times, each time
starting with [seed]. */
/** @see kotlin.sequences.sequence */
/** @sample

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samples.collections.Sequences.Building.generateSequenceWithSeed
*\/@kotlin.internal.LowPriorityInOverloadResolution\npublic fun <T : Any> generateSequence(seed: T?,
nextFunction: (T) -> T?): Sequence<T> =\n if (seed == null)\n EmptySequence\n else\n GeneratorSequence({ seed }, nextFunction)\n\n/**\n * Returns a sequence defined by the function [seedFunction],
which is invoked to produce the starting value,\n * and the [nextFunction], which is invoked to calculate the next
value based on the previous one on each iteration.\n *\n * The sequence produces values until it encounters first
`null` value.\n * If [seedFunction] returns `null`, an empty sequence is produced.\n *\n * The sequence can be
iterated multiple times.\n *\n * @see kotlin.sequences.sequence\n *\n * @sample
samples.collections.Sequences.Building.generateSequenceWithLazySeed
*\/\npublic fun <T : Any>
generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n
GeneratorSequence(seedFunction, nextFunction)\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*\/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("PreconditionsKt")\n\npackage
kotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is false.\n
*\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n *\/\n@kotlin.internal.InlineOnly\n\npublic
inline fun require(value: Boolean): Unit {\n contract {\n returns() implies value\n }\n require(value) {\n
"Failed requirement." }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling
[lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n
*\/\n@kotlin.internal.InlineOnly\n\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n
contract {\n returns() implies value\n }\n if (!value) {\n val message = lazyMessage()\n throw
IllegalArgumentException(message.toString())\n }\n}\n\n/**\n * Throws an [IllegalArgumentException] if the
[value] is null. Otherwise returns the not null value.\n *\n * @kotlin.internal.InlineOnly\n\npublic inline fun <T : Any>
requireNotNull(value: T?): T {\n contract {\n returns() implies (value != null)\n }\n return
requireNotNull(value) {"Required value was null." }\n}\n\n/**\n * Throws an [IllegalArgumentException] with
the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failRequireNotNullWithLazyMessage\n *\/\n@kotlin.internal.InlineOnly\n\npublic inline
fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\n contract {\n returns() implies (value
!= null)\n }\n if (value == null) {\n val message = lazyMessage()\n throw
IllegalArgumentException(message.toString())\n } else {\n return value\n }\n}\n\n/**\n * Throws an
[IllegalStateException] if the [value] is false.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n *\/\n@kotlin.internal.InlineOnly\n\npublic inline fun
check(value: Boolean): Unit {\n contract {\n returns() implies value\n }\n check(value) {"Check failed."
}\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n
*\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n *\/\n@kotlin.internal.InlineOnly\n\npublic
inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\n contract {\n returns() implies value\n }\n
 if (!value) {\n val message = lazyMessage()\n throw IllegalStateException(message.toString())\n }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\n * returns the not null value.\n
*\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n *\/\n@kotlin.internal.InlineOnly\n\npublic
inline fun <T : Any> checkNotNull(value: T?): T {\n contract {\n returns() implies (value != null)\n }\n
 return checkNotNull(value) {"Required value was null." }\n}\n\n/**\n * Throws an [IllegalStateException] with
the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n *\/\n@kotlin.internal.InlineOnly\n\npublic inline fun <T :
Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {\n contract {\n returns() implies (value != null)\n
 }\n if (value == null) {\n val message = lazyMessage()\n throw
IllegalStateException(message.toString())\n } else {\n return value\n }\n}\n\n/**\n * Throws an
[IllegalStateException] with the given [message].\n *\n * @sample samples.misc.Preconditions.failWithError\n
*\/\n@kotlin.internal.InlineOnly\n\npublic inline fun error(message: Any): Nothing = throw

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IllegalStateException(message.toString())\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED
by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nimport
kotlin.js.*\nimport primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport
kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an
[IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n */\n\npublic actual fun <T> Array<out T>.elementAt(index:
Int): T {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("\index: $index, size: $size}")
}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic
actual fun ByteArray.elementAt(index: Int): Byte {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("\index: $index, size: $size}") }\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n */\n\npublic actual fun ShortArray.elementAt(index: Int): Short
{\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("\index: $index, size: $size}")
}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic
actual fun IntArray.elementAt(index: Int): Int {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("\index: $index, size: $size}") }\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n */\n\npublic actual fun LongArray.elementAt(index: Int): Long
{\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("\index: $index, size: $size}")
}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic
actual fun FloatArray.elementAt(index: Int): Float {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("\index: $index, size: $size}") }\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n */\n\npublic actual fun DoubleArray.elementAt(index: Int):
Double {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("\index: $index, size: $size}")
}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic
actual fun BooleanArray.elementAt(index: Int): Boolean {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("\index: $index, size: $size}") }\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n */\n\npublic actual fun CharArray.elementAt(index: Int): Char
{\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("\index: $index, size: $size}")
}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n\npublic actual fun <T> Array<out T>.asList():
List<T> {\n return ArrayList<T>(this.unsafeCast<Array<Any?>>())\n}\n\n/**\n * Returns a [List] that wraps the
original array.\n */\n\n@kotlin.internal.InlineOnly\npublic actual inline fun ByteArray.asList(): List<Byte> {\n
return this.unsafeCast<Array<Byte>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n\n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList(): List<Short> {\n return
this.unsafeCast<Array<Short>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n\n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList(): List<Int> {\n return
this.unsafeCast<Array<Int>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n\n@kotlin.internal.InlineOnly\npublic actual inline fun LongArray.asList(): List<Long> {\n return
this.unsafeCast<Array<Long>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n\n@kotlin.internal.InlineOnly\npublic actual inline fun FloatArray.asList(): List<Float> {\n return

```

```

this.unsafeCast<Array<Float>>().asList()\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList(): List<Double> {\n return
this.unsafeCast<Array<Double>>().asList()\n\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@kotlin.internal.InlineOnly\npublic actual inline fun BooleanArray.asList(): List<Boolean> {\n return
this.unsafeCast<Array<Boolean>>().asList()\n\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\npublic actual fun CharArray.asList(): List<Char> {\n return object : AbstractList<Char>(), RandomAccess {\n
 override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n
 override fun contains(element: Char): Boolean = this@asList.contains(element)\n override fun get(index: Int):
Char {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n
 override fun indexOf(element: Char): Int {\n @Suppress("USELESS_CAST")\n if ((element as
Any?) !is Char) return -1\n return this@asList.indexOf(element)\n }\n override fun
lastIndexOf(element: Char): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is
Char) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n\n}\n\n/**\n * Returns `true` if the
two specified arrays are *deeply* equal to one another.\n * i.e. contain the same number of the same elements in the
same order.\n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of
arrays contains itself on any nesting level the behavior is undefined.\n * The elements of other types are
compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is
equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual infix fun <T>
Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n return
this.contentDeepEquals(other)\n\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one
another,\n * i.e. contain the same number of the same elements in the same order.\n * The specified arrays are
also considered deeply equal if both are `null`.\n * If two corresponding elements are nested arrays, they are
also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * The
elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point
numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayDeepEquals")\npublic actual infix fun <T> Array<out
T>?.contentDeepEquals(other: Array<out T>?): Boolean {\n definedExternally\n\n}\n\n/**\n * Returns a hash code
based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * If any of arrays
contains itself on any nesting level the behavior is undefined.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out
T>.contentDeepHashCode(): Int {\n return this.contentDeepHashCode()\n\n}\n\n/**\n * Returns a hash code based
on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * If any of arrays
contains itself on any nesting level the behavior is undefined.\n
*\n@SinceKotlin("1.4")\n@library("arrayDeepHashCode")\npublic actual fun <T> Array<out
T>?.contentDeepHashCode(): Int {\n definedExternally\n\n}\n\n/**\n * Returns a string representation of the
contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * If any of arrays contains
itself on any nesting level that reference\n * is rendered as `[...]` to prevent recursion.\n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out
T>.contentDeepToString(): String {\n return this.contentDeepToString()\n\n}\n\n/**\n * Returns a string
representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * If any
of arrays contains itself on any nesting level that reference\n * is rendered as `[...]` to prevent recursion.\n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\n
*\n@SinceKotlin("1.4")\n@library("arrayDeepToString")\npublic actual fun <T> Array<out
T>?.contentDeepToString(): String {\n definedExternally\n\n}\n\n/**\n * Returns `true` if the two specified arrays
are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers

```

it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```

*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
actual infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean {\n return
this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one
another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are
compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is
equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
ByteArray.contentEquals(other: ByteArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
ShortArray.contentEquals(other: ShortArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
IntArray.contentEquals(other: IntArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns `true`
if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same
elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
LongArray.contentEquals(other: LongArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
FloatArray.contentEquals(other: FloatArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
DoubleArray.contentEquals(other: DoubleArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n *
Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number
of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
BooleanArray.contentEquals(other: BooleanArray): Boolean {\n return this.contentEquals(other)\n}\n\n/**\n *
Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number
of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

```

```

*\n@Deprecated("\nUse Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
CharArray.contentEquals(other: CharArray): Boolean {\n return this.contentEquals(other)\n}\n\n**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun <T> Array<out
T>?.contentEquals(other: Array<out T>?): Boolean {\n definedExternally\n}\n\n**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating
point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun ByteArray?.contentEquals(other:
ByteArray?): Boolean {\n definedExternally\n}\n\n**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun ShortArray?.contentEquals(other:
ShortArray?): Boolean {\n definedExternally\n}\n\n**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun IntArray?.contentEquals(other:
IntArray?): Boolean {\n definedExternally\n}\n\n**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun LongArray?.contentEquals(other:
LongArray?): Boolean {\n definedExternally\n}\n\n**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun FloatArray?.contentEquals(other:
FloatArray?): Boolean {\n definedExternally\n}\n\n**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun DoubleArray?.contentEquals(other:
DoubleArray?): Boolean {\n definedExternally\n}\n\n**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun BooleanArray?.contentEquals(other:
BooleanArray?): Boolean {\n definedExternally\n}\n\n**\n * Returns `true` if the two specified arrays are
structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun CharArray?.contentEquals(other:
CharArray?): Boolean {\n definedExternally\n}\n\n**\n * Returns a hash code based on the contents of this array

```



```

as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun <T>
Array<out T>.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based
on the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
ByteArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
ShortArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
IntArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
LongArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
FloatArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
DoubleArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based
on the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
BooleanArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based
on the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
CharArray.contentHashCode(): Int {\n return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual
fun <T> Array<out T>?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on
the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual
fun ByteArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the
contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun
ShortArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the
contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun
IntArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents
of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun
LongArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the
contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun
FloatArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the
contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun
DoubleArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the
contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun
BooleanArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the
contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun
CharArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a string representation of the
contents of the specified array as if it is [List].\n *\n\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic

```

```

actual fun <T> Array<out T>.contentToString(): String {
 return this.contentToString()
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

/**
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.1")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 */
public actual fun ByteArray.contentToString(): String {
 return this.contentToString()
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

/**
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.1")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 */
public actual fun ShortArray.contentToString(): String {
 return this.contentToString()
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

/**
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.1")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 */
public actual fun IntArray.contentToString(): String {
 return this.contentToString()
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

/**
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.1")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 */
public actual fun LongArray.contentToString(): String {
 return this.contentToString()
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

/**
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.1")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 */
public actual fun FloatArray.contentToString(): String {
 return this.contentToString()
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

/**
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.1")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 */
public actual fun DoubleArray.contentToString(): String {
 return this.contentToString()
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

/**
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.1")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 */
public actual fun BooleanArray.contentToString(): String {
 return this.contentToString()
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

/**
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.1")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 */
public actual fun CharArray.contentToString(): String {
 return this.contentToString()
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

*
* @n@SinceKotlin("1.4")
* @library("arrayToString")
* @npublic actual fun <T> Array<out T>?.contentToString():
String {
 definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as
if it is [List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

*
* @n@SinceKotlin("1.4")
* @library("arrayToString")
* @npublic actual fun ByteArray?.contentToString(): String
{
 definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
[List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

*
* @n@SinceKotlin("1.4")
* @library("arrayToString")
* @npublic actual fun ShortArray?.contentToString(): String
{
 definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
[List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

*
* @n@SinceKotlin("1.4")
* @library("arrayToString")
* @npublic actual fun IntArray?.contentToString(): String {
 definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
[List].
 */
@sample
samples.collections.Arrays.ContentOperations.contentToString

*
* @n@SinceKotlin("1.4")
* @library("arrayToString")
* @npublic actual fun LongArray?.contentToString(): String

```

```

{\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun FloatArray?.contentToString(): String
{\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun DoubleArray?.contentToString(): String
{\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun BooleanArray?.contentToString():
String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as
if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun CharArray?.contentToString(): String
{\n definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that
array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it
overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset
the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of
the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this
array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex]
or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws
IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified
[destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the
[destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset:
Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n arrayCopy(this, destination, destinationOffset,
startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination]
array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the
subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n *
@param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices
range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): ByteArray {\n arrayCopy(this.unsafeCast<Array<Byte>>(),
destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n
 * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the
same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n *
@param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to
copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n *
@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange
doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of
the [destination] array indices range.\n * \n * @return the [destination] array.\n

```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("\nACTUAL_FUNCTION_WITH_DEFAULT\n_ARGUMENTS")\n\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {\n arrayCopy(this.unsafeCast<Array<Short>>(),\n destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n\n*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("\nACTUAL_FUNCTION_WITH_DEFAULT\n_ARGUMENTS")\n\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n arrayCopy(this.unsafeCast<Array<Int>>(),\n destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n\n*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("\nACTUAL_FUNCTION_WITH_DEFAULT\n_ARGUMENTS")\n\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {\n arrayCopy(this.unsafeCast<Array<Long>>(),\n destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n\n*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("\nACTUAL_FUNCTION_WITH_DEFAULT\n_ARGUMENTS")\n\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {\n arrayCopy(this.unsafeCast<Array<Float>>(),\n destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */

```

IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.  
@throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],  
or when that index is out of the [destination] array indices range.  
@return the [destination] array.

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.
```

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.
```

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun ByteArray.copyOfOf(): ByteArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun ShortArray.copyOfOf(): ShortArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun IntArray.copyOfOf(): IntArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOfOf
```

```

*\npublic actual fun LongArray.copyOf(): LongArray {\n return withType("LongArray",
this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun FloatArray.copyOf(): FloatArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new
array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun DoubleArray.copyOf(): DoubleArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns
new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\n\npublic actual fun BooleanArray.copyOf():
BooleanArray {\n return withType("BooleanArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*\n\npublic actual fun CharArray.copyOf(): CharArray {\n return withType("CharArray",
this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given
[newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize]
is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater
than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n\npublic actual fun
ByteArray.copyOf(newSize: Int): ByteArray {\n require(newSize >= 0) { "Invalid new array size: $newSize." }\n
 return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\n\npublic actual fun ShortArray.copyOf(newSize: Int): ShortArray {\n require(newSize >= 0) { "Invalid new
array size: $newSize." }\n return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a
copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with
zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated
to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array
are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n\npublic actual fun
IntArray.copyOf(newSize: Int): IntArray {\n require(newSize >= 0) { "Invalid new array size: $newSize." }\n
 return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array,
resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n
*\n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If
[newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n\npublic actual
fun LongArray.copyOf(newSize: Int): LongArray {\n require(newSize >= 0) { "Invalid new array size:
$newSize." }\n return withType("LongArray", arrayCopyResize(this, newSize, 0L))\n}\n\n/**\n * Returns new
array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded
at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy
array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements
in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\n\npublic actual fun
FloatArray.copyOf(newSize: Int): FloatArray {\n require(newSize >= 0) { "Invalid new array size: $newSize." }\n
 return fillFrom(this, FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are

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filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {\n require(newSize >= 0) { \"Invalid new\n
array size: $newSize.\" }\n return fillFrom(this, DoubleArray(newSize))\n}\n\n/**\n * Returns new array which is\n
a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end\n
with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is\n
truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the\n
copy array are filled with `false` values.\n * \n * @sample\n
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic actual fun\n
BooleanArray.copyOf(newSize: Int): BooleanArray {\n require(newSize >= 0) { \"Invalid new array size:\n
$newSize.\" }\n return withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/**\n * Returns\n
new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or\n
padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the\n
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original\n
array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample\n
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic actual fun\n
CharArray.copyOf(newSize: Int): CharArray {\n require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n
}\n return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/**\n * Returns new array which is\n
a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end\n
with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is\n
truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the\n
copy array are filled with `null` values.\n * \n * @sample\n
samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n
*\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int):\n
Array<T?> {\n require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n return arrayCopyResize(this,\n
newSize, null)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n\n
* @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive)\n
to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than\n
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n
*\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out\n
T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n AbstractList.checkRangeIndexes(fromIndex,\n
toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a\n
copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to\n
copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException\n
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws\n
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n
*\npublic actual fun\n
ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,\n
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * \n
* @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to\n
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the\n
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n
*\npublic\n
actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,\n
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * \n
* @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to\n
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the\n
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n
*\npublic\n
actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n

```





fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic\nactual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic\nactual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic\nactual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic\nactual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic\nactual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic\nactual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
```

fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

```
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {\n return\n this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.plus(element: Byte): ByteArray {\n return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(element: Short): ShortArray {\n return plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun IntArray.plus(element: Int): IntArray {\n return plus(intArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(element: Long): LongArray {\n return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun FloatArray.plus(element: Float): FloatArray {\n return plus(floatArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(element: Double): DoubleArray {\n return plus(doubleArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {\n return\n plus(booleanArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun CharArray.plus(element: Char): CharArray {\n return plus(charArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual operator fun <T> Array<out T>.plus(elements: Collection<T>): Array<T> {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@public actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {\n return\n fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@public actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {\n return\n fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@public actual operator fun IntArray.plus(elements: Collection<Int>): IntArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@public actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@public actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {\n return\n fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing
```

all elements of the original array and then all elements of the given [elements] collection.

`fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {`  
`return`  
`fillFromCollection(this.copyOf(size + elements.size), this.size, elements)}`

`fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {`  
`return`  
`arrayPlusCollection(this, elements)}`

`fun CharArray.plus(elements: Collection<Char>): CharArray {`  
`return`  
`fillFromCollection(this.copyOf(size + elements.size), this.size, elements)}`

`fun IntArray.plus(elements: IntArray): IntArray {`  
`return`  
`primitiveArrayConcat(this, elements)}`

`fun LongArray.plus(elements: LongArray): LongArray {`  
`return`  
`primitiveArrayConcat(this, elements)}`

`fun FloatArray.plus(elements: FloatArray): FloatArray {`  
`return`  
`primitiveArrayConcat(this, elements)}`

`fun DoubleArray.plus(elements: DoubleArray): DoubleArray {`  
`return`  
`primitiveArrayConcat(this, elements)}`

`fun BooleanArray.plus(elements: BooleanArray): BooleanArray {`  
`return`  
`primitiveArrayConcat(this, elements)}`

`fun CharArray.plus(elements: CharArray): CharArray {`  
`return`  
`primitiveArrayConcat(this, elements)}`

`fun <T> Array<out T>.plusElement(element: T): Array<T> {`  
`return`  
`this.asDynamic().concat(arrayOf(element))}`

`fun IntArray.sort(): Unit {`  
`definedExternally}`

`fun LongArray.sort(): Unit {`  
`if (size > 1) sort {`  
`a: Long, b: Long -> a.compareTo(b)}`  
`}`

`fun ByteArray.sort(): Unit {`  
`definedExternally}`

`fun ShortArray.sort(): Unit {`  
`definedExternally}`

```

samples.collections.Arrays.Sorting.sortArray\n *\/\n@library(\\"primitiveArraySort\\")\npublic actual fun
DoubleArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n *\/\n@library(\\"primitiveArraySort\\")\npublic actual fun
FloatArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n *\/\n@library(\\"primitiveArraySort\\")\npublic actual fun
CharArray.sort(): Unit {\n definedExternally\n}\n\n/**\n * Sorts the array in-place according to the natural order
of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n *\/\npublic actual fun
<T : Comparable<T>> Array<out T>.sort(): Unit {\n if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-
place according to the order specified by the given [comparison] function.\n * \n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n * \n\npublic fun <T> Array<out
T>.sort(comparison: (a: T, b: T) -> Int): Unit {\n if (size > 1) sortArrayWith(this, comparison)\n}\n\n/**\n * Sorts
a range in the array in-place.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative
to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n
\n *\/\n@SinceKotlin(\"1.4\")\n@Suppress(\\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\\")\npublic
actual fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this, fromIndex, toIndex,
naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * \n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
\n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
\n *\/\n@SinceKotlin(\"1.4\")\n@Suppress(\\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\\")\npublic
actual fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ByteArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
\n *\/\n@SinceKotlin(\"1.4\")\n@Suppress(\\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\\")\npublic
actual fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
\n *\/\n@SinceKotlin(\"1.4\")\n@Suppress(\\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\\")\npublic
actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a

```

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range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this.unsafeCast<Array<Long>>(),
fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<FloatArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<DoubleArray>()\n subarray.sort()\n}\n\n/**\n * Sorts
a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>()\n subarray.sort()\n}\n\n/**\n * Sorts the
array in-place according to the order specified by the given [comparison] function.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int):
Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by
the given [comparison] function.\n * \n * @kotlin.internal.InlineOnly\npublic inline fun ShortArray.sort(noinline
comparison: (a: Short, b: Short) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-
place according to the order specified by the given [comparison] function.\n * \n * @kotlin.internal.InlineOnly\npublic
inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n * \n * @kotlin.internal.InlineOnly\npublic inline fun LongArray.sort(noinline comparison:
(a: Long, b: Long) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according
to the order specified by the given [comparison] function.\n * \n * @kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given

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[comparison] function.\n *^@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sort(noinline comparison:
(a: Double, b: Double) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place
according to the order specified by the given [comparison] function.\n *^@kotlin.internal.InlineOnly\npublic
inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n *^npublic actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {\n if
(size > 1) sortArrayWith(this, comparator)\n}\n\n/**\n * Sorts a range in the array in-place with the given
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex
the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentExcepion if [fromIndex] is greater than [toIndex].\n
*^@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size):
Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this, fromIndex, toIndex,
comparator)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n
*^npublic actual fun ByteArray.toTypedArray(): Array<Byte> {\n return js("[]").slice.call(this)\n}\n\n/**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n *^npublic actual fun
ShortArray.toTypedArray(): Array<Short> {\n return js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed*
object array containing all of the elements of this primitive array.\n *^npublic actual fun IntArray.toTypedArray():
Array<Int> {\n return js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the
elements of this primitive array.\n *^npublic actual fun LongArray.toTypedArray(): Array<Long> {\n return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *^npublic actual fun FloatArray.toTypedArray(): Array<Float> {\n return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *^npublic actual fun DoubleArray.toTypedArray(): Array<Double> {\n return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *^npublic actual fun BooleanArray.toTypedArray(): Array<Boolean> {\n return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *^npublic actual fun CharArray.toTypedArray(): Array<Char> {\n return Array(size) { index ->
this[index] }\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*^@file:kotlin.jvm.JvmName("ComparisonsKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.comparisons\n\n/**\n * Compares two values using the specified functions [selectors] to calculate the result
of the comparison.\n * The functions are called sequentially, receive the given values [a] and [b] and return
[Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do
not\n * compare as equal, the result of that comparison is returned.\n * \n * @sample
samples.comparisons.Comparisons.compareValuesByWithSelectors\n *^npublic fun <T> compareValuesBy(a: T,
b: T, vararg selectors: (T) -> Comparable<*>?): Int {\n require(selectors.size > 0)\n return
compareValuesByImpl(a, b, selectors)\n}\n\nprivate fun <T> compareValuesByImpl(a: T, b: T, selectors:
Array<out (T) -> Comparable<*>?): Int {\n for (fn in selectors) {\n val v1 = fn(a)\n val v2 = fn(b)\n val
diff = compareValues(v1, v2)\n if (diff != 0) return diff\n }\n return 0\n}\n\n/**\n * Compares two
values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to
the given values [a] and [b] and return [Comparable] objects.\n * The result of comparison of these [Comparable]
instances is returned.\n * \n * @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector\n
*^@kotlin.internal.InlineOnly\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) ->

```

```

Comparable<*>?): Int { \n return compareValues(selector(a), selector(b))\n}\n\n/**\n * Compares two values
using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the
given values [a] and [b] and return objects of type K which are then being\n * compared with the given
[comparator].\n * \n * @sample samples.comparisons.Comparisons.compareValuesByWithComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in
K>, selector: (T) -> K): Int { \n return comparator.compare(selector(a), selector(b))\n}\n\n//// Not so useful without
type inference for receiver of expression\n//// compareValuesWith(v1, v2, compareBy { it.prop1 }
thenByDescending { it.prop2 })\n\n/**\n// * Compares two values using the specified [comparator].\n\n//
*\n//@Suppress("NOTHING_TO_INLINE")\n//public inline fun <T> compareValuesWith(a: T, b: T, comparator:
Comparator<T>): Int = comparator.compare(a, b)\n\n/\n\n/**\n * Compares two nullable [Comparable] values. Null
is considered less than any value.\n * \n * @sample samples.comparisons.Comparisons.compareValues\n * \npublic
fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int { \n if (a === b) return 0\n if (a == null) return -1\n
if (b == null) return 1\n\n @Suppress("UNCHECKED_CAST")\n return (a as
Comparable<Any>).compareTo(b)\n}\n\n\n/**\n * Creates a comparator using the sequence of functions to calculate a
result of comparison.\n * The functions are called sequentially, receive the given values `a` and `b` and return
[Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do
not\n * compare as equal, the result of that comparison is returned from the [Comparator].\n * \n * @sample
samples.comparisons.Comparisons.compareByWithSelectors\n * \npublic fun <T> compareBy(vararg selectors: (T)
-> Comparable<*>?): Comparator<T> { \n require(selectors.size > 0)\n return Comparator { a, b ->
compareValuesByImpl(a, b, selectors) }\n}\n\n\n/**\n * Creates a comparator using the function to transform value
to a [Comparable] instance for comparison.\n * \n * @sample
samples.comparisons.Comparisons.compareByWithSingleSelector\n * \n@kotlin.internal.InlineOnly\npublic inline
fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n Comparator { a, b ->
compareValuesBy(a, b, selector) }\n\n\n/**\n * Creates a comparator using the [selector] function to transform values
being compared and then applying\n * the specified [comparator] to compare transformed values.\n * \n * @sample
samples.comparisons.Comparisons.compareByWithComparator\n * \n@kotlin.internal.InlineOnly\npublic inline
fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\n\n\n/**\n * Creates a descending comparator
using the function to transform value to a [Comparable] instance for comparison.\n * \n * @sample
samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) ->
Comparable<*>?): Comparator<T> =\n Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n\n/**\n * Creates a descending comparator using the [selector] function to transform values being compared and then
applying\n * the specified [comparator] to compare transformed values.\n * \n * Note that an order of [comparator] is
reversed by this wrapper.\n * \n * @sample
samples.comparisons.Comparisons.compareByDescendingWithComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =\n Comparator { a, b -> compareValuesBy(b, a, comparator,
selector) }\n\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It
uses\n * the function to transform value to a [Comparable] instance for comparison.\n * \n * @sample
samples.comparisons.Comparisons.thenBy\n * \n@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n Comparator { a, b -
>\n val previousCompare = this@thenBy.compare(a, b)\n if (previousCompare != 0) previousCompare else
compareValuesBy(a, b, selector)\n }\n\n\n/**\n * Creates a comparator comparing values after the primary
comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with
the given [comparator].\n * \n * @sample samples.comparisons.Comparisons.thenByWithComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =\n Comparator { a, b ->\n val previousCompare =

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this@thenBy.compare(a, b)\n if (previousCompare != 0) previousCompare else compareValuesBy(a, b,
comparator, selector)\n }\n\n/**\n * Creates a descending comparator using the primary comparator and\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.thenByDescending\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n
Comparator { a, b ->\n val previousCompare = this@thenByDescending.compare(a, b)\n if
(previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n }\n\n/**\n * Creates a
descending comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector]
function to transform values and then compares them with the given [comparator].\n *\n * @sample
samples.comparisons.Comparisons.thenByDescendingWithComparator\n *\n@kotlin.internal.InlineOnly\npublic
inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) ->
K): Comparator<T> =\n Comparator { a, b ->\n val previousCompare = this@thenByDescending.compare(a,
b)\n if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n
 }\n\n\n/**\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\n
*\n * @sample samples.comparisons.Comparisons.thenComparator\n *\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n
Comparator { a, b ->\n val previousCompare = this@thenComparator.compare(a, b)\n if (previousCompare
!= 0) previousCompare else comparison(a, b)\n }\n\n\n/**\n * Combines this comparator and the given [comparator]
such that the latter is applied only\n * when the former considered values equal.\n *\n * @sample
samples.comparisons.Comparisons.then\n *\npublic infix fun <T> Comparator<T>.then(comparator:
Comparator<in T>): Comparator<T> =\n Comparator { a, b ->\n val previousCompare =
this@then.compare(a, b)\n if (previousCompare != 0) previousCompare else comparator.compare(a, b)\n
 }\n\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the
former considered values equal.\n *\n * @sample samples.comparisons.Comparisons.thenDescending\n *\npublic
infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n
Comparator<T> { a, b ->\n val previousCompare = this@thenDescending.compare(a, b)\n if
(previousCompare != 0) previousCompare else comparator.compare(b, a)\n }\n\n// Not so useful without type
inference for receiver of expression\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator
of nullable values\n * considering `null` value less than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\npublic fun <T : Any>
nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n Comparator { a, b ->\n when {\n a
=== b -> 0\n a == null -> -1\n b == null -> 1\n else -> comparator.compare(a, b)\n }\n
 }\n\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other
value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> =
nullsFirst(naturalOrder())\n\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of
nullable values\n * considering `null` value greater than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\npublic fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n Comparator { a, b ->\n when {\n a
=== b -> 0\n a == null -> 1\n b == null -> -1\n else -> comparator.compare(a, b)\n }\n
 }\n\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value greater than any
other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> =
nullsLast(naturalOrder())\n\n\n/**\n * Returns a comparator that compares [Comparable] objects in natural order.\n
*\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\n *\npublic fun <T : Comparable<T>>
naturalOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as
Comparator<T>)\n\n\n/**\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\n
*\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\npublic fun <T :

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Comparable<T>> reverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")
(ReverseOrderComparator as Comparator<T>)\n\n/**\n * Returns a comparator that imposes the reverse ordering
of this comparator.\n *\n * @sample samples.comparisons.Comparisons.reversed\n */\npublic fun <T>
Comparator<T>.reversed(): Comparator<T> = when (this) {\n is ReversedComparator -> this.comparator\n
NaturalOrderComparator -> @Suppress("UNCHECKED_CAST") (ReverseOrderComparator as
Comparator<T>)\n ReverseOrderComparator -> @Suppress("UNCHECKED_CAST")
(NaturalOrderComparator as Comparator<T>)\n else -> ReversedComparator(this)\n}\n\nprivate class
ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {\n override fun compare(a:
T, b: T): Int = comparator.compare(b, a)\n @Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed():
Comparator<T> = comparator\n}\n\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\n
override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n
@Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed(): Comparator<Comparable<Any>> =
ReverseOrderComparator\n}\n\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\n
override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\n
@Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed(): Comparator<Comparable<Any>> =
NaturalOrderComparator\n}\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StandardKt")\npackage kotlin\n\nimport
kotlin.contracts.*\n\n/**\n * An exception is thrown to indicate that a method body remains to be implemented.\n
*/\npublic class NotImplementedError(message: String = "An operation is not implemented.") :
Error(message)\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/**\n *
Always throws [NotImplementedError] stating that operation is not implemented.\n *\n * @param reason a string
explaining why the implementation is missing.\n */\n@kotlin.internal.InlineOnly\npublic inline fun TODO(reason:
String): Nothing = throw NotImplementedError("An operation is not implemented: $reason")\n\n/**\n * Calls
the specified function [block] and returns its result.\n *\n * For detailed usage information see the documentation for
[scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <R> run(block: () -> R): R {\n contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n\n/**\n * Calls the specified
function [block] with `this` value as its receiver and returns its result.\n *\n * For detailed usage information see the
documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.run(block: T.() -> R): R {\n contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n\n/**\n * Calls the specified
function [block] with the given [receiver] as its receiver and returns its result.\n *\n * For detailed usage information
see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\n contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return receiver.block()\n}\n\n/**\n * Calls the
specified function [block] with `this` value as its receiver and returns `this` value.\n *\n * For detailed usage
information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-
functions.html#apply).\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\n
contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n block()\n return
this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns `this` value.\n
*/\n * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\n
*/\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.also(block: (T) -> Unit): T {\n
contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n block(this)\n return
this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns its result.\n
*/\n

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For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\n \*  
`@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.let(block: (T) -> R): R {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block(this)\n}\n\n/**\n * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n *\n @kotlin.internal.InlineOnly\n @SinceKotlin("1.1")\n public inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {\n contract {\n callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n }\n return if (predicate(this)) this else null\n}\n\n/**\n * Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n *\n @kotlin.internal.InlineOnly\n @SinceKotlin("1.1")\n public inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {\n contract {\n callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n }\n return if (!predicate(this)) this else null\n}\n\n/**\n * Executes the given function [action] specified number of [times].\n *\n * A zero-based index of current iteration is passed as a parameter to [action].\n *\n @sample samples.misc.ControlFlow.repeat\n *\n @kotlin.internal.InlineOnly\n public inline fun repeat(times: Int, action: (Int) -> Unit) {\n contract { callsInPlace(action) }\n for (index in 0 until times) {\n action(index)\n }\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n @npackage kotlin.comparisons\n @n/\n / NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n / See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n /\n nimport kotlin.js.*\n n\n /**\n * Returns the greater of two values.\n *\n * If values are equal, returns the first one.\n *\n @SinceKotlin("1.1")\n public actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n *\n @kotlin.internal.InlineOnly\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual inline fun maxOf(a: Byte, b: Byte): Byte {\n return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of two values.\n *\n @kotlin.internal.InlineOnly\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual inline fun maxOf(a: Short, b: Short): Short {\n return Math.max(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n *\n @kotlin.internal.InlineOnly\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual inline fun maxOf(a: Int, b: Int): Int {\n return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n *\n @kotlin.internal.InlineOnly\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")\n public actual inline fun maxOf(a: Long, b: Long): Long {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, returns `NaN`.\n *\n @kotlin.internal.InlineOnly\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual inline fun maxOf(a: Float, b: Float): Float {\n return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, returns `NaN`.\n *\n @kotlin.internal.InlineOnly\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual inline fun maxOf(a: Double, b: Double): Double {\n return Math.max(a, b)\n}\n\n/**\n * Returns the greater of three values.\n *\n * If there are multiple equal maximal values, returns the first of them.\n *\n @kotlin.internal.InlineOnly\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n *\n @kotlin.internal.InlineOnly\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {\n return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of three values.\n *\n @kotlin.internal.InlineOnly\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION_ERROR")\n public actual inline fun maxOf(a: Short, b: Short, c: Short): Short {\n return Math.max(a.toInt(), b.toInt(),`

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c.toInt()).unsafeCast<Short>()\n\n/**\n * Returns the greater of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Int, b: Int, c: Int): Int {\n return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three
values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long,
c: Long): Long {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n * \n * If any
value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Float, b: Float, c: Float): Float {\n return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater
of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Double, b: Double, c: Double): Double {\n return Math.max(a, b, c)\n}\n\n/**\n * Returns the
greater of the given values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n
*\n@SinceKotlin("1.4")\npublic actual fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T {\n var max
= a\n for (e in other) max = maxOf(max, e)\n return max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Byte, vararg other: Byte): Byte {\n var max = a\n for (e
in other) max = maxOf(max, e)\n return max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Short, vararg other: Short): Short {\n var max = a\n for
(e in other) max = maxOf(max, e)\n return max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Int, vararg other: Int): Int {\n var max = a\n for (e in
other) max = maxOf(max, e)\n return max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Long, vararg other: Long): Long {\n var max = a\n for (e
in other) max = maxOf(max, e)\n return max\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If any
value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Float, vararg other: Float):
Float {\n var max = a\n for (e in other) max = maxOf(max, e)\n return max\n}\n\n/**\n * Returns the greater
of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic actual fun
maxOf(a: Double, vararg other: Double): Double {\n var max = a\n for (e in other) max = maxOf(max, e)\n
 return max\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If values are equal, returns the first one.\n
*\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T): T {\n return if (a <= b) a
else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Byte, b: Byte): Byte {\n return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n
* Returns the smaller of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Short, b: Short): Short {\n return Math.min(a.toInt(),
b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Int, b: Int): Int {\n return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.1")\n@Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")\npublic actual
inline fun minOf(a: Long, b: Long): Long {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two
values.\n * \n * If either value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Float, b: Float): Float {\n return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two
values.\n * \n * If either value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Double, b: Double): Double {\n return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of
three values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n
*\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {\n return minOf(a,
minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n

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*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {\n return Math.min(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Short, b: Short, c: Short): Short {\n return Math.min(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Int, b: Int, c: Int): Int {\n return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three
values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long,
c: Long): Long {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n *\n * If any
value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Float, b: Float, c: Float): Float {\n return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller
of three values.\n *\n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Double, b: Double, c: Double): Double {\n return Math.min(a, b, c)\n}\n\n/**\n * Returns the
smaller of the given values.\n *\n * If there are multiple equal minimal values, returns the first of them.\n
*\n@SinceKotlin("1.4")\npublic actual fun <T : Comparable<T>> minOf(a: T, vararg other: T): T {\n var min =
a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Byte, vararg other: Byte): Byte {\n var min = a\n for (e in
other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Short, vararg other: Short): Short {\n var min = a\n for (e
in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Int, vararg other: Int): Int {\n var min = a\n for (e in
other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Long, vararg other: Long): Long {\n var min = a\n for (e
in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of the given values.\n *\n * If any
value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Float, vararg other: Float):
Float {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of
the given values.\n *\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic actual fun
minOf(a: Double, vararg other: Double): Double {\n var min = a\n for (e in other) min = minOf(min, e)\n return
min\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.experimental.*\n\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@
SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class ULong @PublishedApi internal
constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {\n companion object {\n /**\n
 * A constant holding the minimum value an instance of ULong can have.\n *\n public const val
MIN_VALUE: ULong = ULong(0)\n /**\n * A constant holding the maximum value an instance of
ULong can have.\n *\n public const val MAX_VALUE: ULong = ULong(-1)\n /**\n * The
number of bytes used to represent an instance of ULong in a binary form.\n *\n public const val
SIZE_BYTES: Int = 8\n /**\n * The number of bits used to represent an instance of ULong in a binary
form.\n *\n public const val SIZE_BITS: Int = 64\n }\n}\n\n/**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n *\n @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())\n\n /**\n *
Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n *\n

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@kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UShort): Int =
this.compareTo(other.toULong())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UInt): Int = this.compareTo(other.toULong())\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
@Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun compareTo(other: ULong): Int =
ulongCompare(this.data, other.data)\n\n /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n
/** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other:
UShort): ULong = this.plus(other.toULong())\n\n /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n
/** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other:
ULong): ULong = ULong(this.data.plus(other.data))\n\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): ULong =
this.minus(other.toULong())\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n\n /** Subtracts the other
value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): ULong =
this.minus(other.toULong())\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n /** Multiplies
this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte):
ULong = this.times(other.toULong())\n\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): ULong =
this.times(other.toULong())\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n\n /** Multiplies this value by
the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong =
ULong(this.data.times(other.data))\n\n /** Divides this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): ULong = this.div(other.toULong())\n
/** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other:
UShort): ULong = this.div(other.toULong())\n\n /** Divides this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): ULong = this.div(other.toULong())\n
/** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other:
ULong): ULong = ulongDivide(this, other)\n\n /** Calculates the remainder of dividing this value by the other
value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): ULong =
this.rem(other.toULong())\n\n /** Calculates the remainder of dividing this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\n
/** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())\n\n /** Calculates the remainder of
dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other:
ULong): ULong = ulongRemainder(this, other)\n\n /** Increments this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun inc(): ULong = ULong(data.inc())\n\n /** Decrements this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun dec(): ULong = ULong(data.dec())\n\n /** Creates a
range from this value to the specified [other] value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
rangeTo(other: ULong): ULongRange = ULongRange(this, other)\n\n /**\n * Shifts this value left by the
[bitCount] number of bits.\n */\n * Note that only the six lowest-order bits of the [bitCount] are used as the shift
distance.\n * The shift distance actually used is therefore always in the range `0..63`.\n */\n
@kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)\n\n

```

```

/**\n * Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros.\n *\n *
Note that only the six lowest-order bits of the [bitCount] are used as the shift distance.\n * The shift distance
actually used is therefore always in the range `0..63`.\n *\n @kotlin.internal.InlineOnly\n public inline infix
fun shr(bitCount: Int): ULong = ULong(data ushr bitCount)\n\n /** Performs a bitwise AND operation between
the two values. *\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: ULong): ULong =
ULong(this.data and other.data)\n\n /** Performs a bitwise OR operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)\n
/** Performs a bitwise XOR operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline
infix fun xor(other: ULong): ULong = ULong(this.data xor other.data)\n\n /** Inverts the bits in this value. *\n
@kotlin.internal.InlineOnly\n public inline fun inv(): ULong = ULong(data.inv())\n\n /**\n * Converts this
[ULong] value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting
`Byte` value represents\n * the same numerical value as this `ULong`.\n *\n * The resulting `Byte` value is
represented by the least significant 8 bits of this `ULong` value.\n * Note that the resulting `Byte` value may be
negative.\n *\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n\n /**\n *
Converts this [ULong] value to [Short].\n *\n * If this value is less than or equals to [Short.MAX_VALUE], the
resulting `Short` value represents\n * the same numerical value as this `ULong`.\n *\n * The resulting `Short`
value is represented by the least significant 16 bits of this `ULong` value.\n * Note that the resulting `Short`
value may be negative.\n *\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort()\n
/**\n * Converts this [ULong] value to [Int].\n *\n * If this value is less than or equals to
[Int.MAX_VALUE], the resulting `Int` value represents\n * the same numerical value as this `ULong`.\n *\n
* The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value.\n * Note that the
resulting `Int` value may be negative.\n *\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int =
data.toInt()\n\n /**\n * Converts this [ULong] value to [Long].\n *\n * If this value is less than or equals to
[Long.MAX_VALUE], the resulting `Long` value represents\n * the same numerical value as this `ULong`.\n
Otherwise the result is negative.\n *\n * The resulting `Long` value has the same binary representation as this
`ULong` value.\n *\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data\n\n /**\n *
Converts this [ULong] value to [UByte].\n *\n * If this value is less than or equals to [UByte.MAX_VALUE],
the resulting `UByte` value represents\n * the same numerical value as this `ULong`.\n *\n * The resulting
`UByte` value is represented by the least significant 8 bits of this `ULong` value.\n *\n
@kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = data.toUByte()\n\n /**\n * Converts this
[ULong] value to [UShort].\n *\n * If this value is less than or equals to [UShort.MAX_VALUE], the resulting
`UShort` value represents\n * the same numerical value as this `ULong`.\n *\n * The resulting `UShort`
value is represented by the least significant 16 bits of this `ULong` value.\n *\n @kotlin.internal.InlineOnly\n
public inline fun toUShort(): UShort = data.toUShort()\n\n /**\n * Converts this [ULong] value to [UInt].\n *\n
* If this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n * the same
numerical value as this `ULong`.\n *\n * The resulting `UInt` value is represented by the least significant 32
bits of this `ULong` value.\n *\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt =
data.toUInt()\n\n /** Returns this value. *\n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong
= this\n\n /**\n * Converts this [ULong] value to [Float].\n *\n * The resulting value is the closest `Float`
to this `ULong` value.\n * In case when this `ULong` value is exactly between two `Float`s,\n * the one with
zero at least significant bit of mantissa is selected.\n *\n @kotlin.internal.InlineOnly\n public inline fun
toFloat(): Float = this.toDouble().toFloat()\n\n /**\n * Converts this [ULong] value to [Double].\n *\n * The
resulting value is the closest `Double` to this `ULong` value.\n * In case when this `ULong` value is exactly
between two `Double`s,\n * the one with zero at least significant bit of mantissa is selected.\n *\n
@kotlin.internal.InlineOnly\n public inline fun toDouble(): Double = ulongToDouble(data)\n\n public override
fun toString(): String = ulongToString(data)\n\n\n /**\n * Converts this [Byte] value to [ULong].\n *\n * If this
value is positive, the resulting `ULong` value represents the same numerical value as this `Byte`.\n *\n * The least
significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value,\n * whereas the most

```

significant 56 bits are filled with the sign bit of this value.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Byte.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Short] value to [ULong].\n * If this
value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.\n * The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\n * whereas the most
significant 48 bits are filled with the sign bit of this value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Short.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Int] value to [ULong].\n * If this value
is positive, the resulting `ULong` value represents the same numerical value as this `Int`.\n * The least
significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value,\n * whereas the most
significant 32 bits are filled with the sign bit of this value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Int.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Long] value to [ULong].\n * If this value
is positive, the resulting `ULong` value represents the same numerical value as this `Long`.\n * The resulting
`ULong` value has the same binary representation as this `Long` value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Long.toULong(): ULong = ULong(this)\n/**\n * Converts this [Float] value to [ULong].\n * The fractional
part, if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`,
[ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Float.toULong(): ULong = doubleToULong(this.toDouble())\n/**\n * Converts this [Double] value to [ULong].\n * The fractional
part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or
`NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Double.toULong(): ULong = doubleToULong(this)\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
```

```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the list.\n * \n *
Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.\n
```

```
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n return
get(0)\n}\n/**\n * Returns 2nd *element* from the list.\n * \n *
Throws an [IndexOutOfBoundsException] if the
size of this list is less than 2.\n*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
```

```
List<T>.component2(): T {\n return get(1)\n}\n/**\n * Returns 3rd *element* from the list.\n * \n *
Throws an
[IndexOutOfBoundsException] if the size of this list is less than 3.\n*/\n@kotlin.internal.InlineOnly\npublic inline
operator fun <T> List<T>.component3(): T {\n return get(2)\n}\n/**\n * Returns 4th *element* from the list.\n * \n *
Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.\n
```

```
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component4(): T {\n return
get(3)\n}\n/**\n * Returns 5th *element* from the list.\n * \n *
Throws an [IndexOutOfBoundsException] if the
size of this list is less than 5.\n*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
```

```
List<T>.component5(): T {\n return get(4)\n}\n/**\n * Returns `true` if [element] is found in the collection.\n
```

```
*\n\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n if
(this is Collection)\n return contains(element)\n return indexOf(element) >= 0\n}\n/**\n * Returns an
element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this
collection.\n * \n *
@sample samples.collections.Collections.Elements.elementAt\n*/\n\npublic fun <T>
```

```
Iterable<T>.elementAt(index: Int): T {\n if (this is List)\n return get(index)\n return
```





```

element\n return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this list.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> List<T>.getOrElse(index: Int, default: (Int) -> T): T {\n return if (index >= 0 && index <=
lastIndex) get(index) else default(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this list.\n */\n * @sample samples.collections.Collections.Elements.getOrNull\n
*/\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n return if (index >= 0 && index <= lastIndex) get(index)
else null\n}\n\n/**\n * Returns first index of [element], or -1 if the collection does not contain element.\n */\npublic
fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T): Int {\n if (this is List) return
this.indexOf(element)\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element
== item)\n return index\n index++\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1
if the list does not contain element.\n */\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false
warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T>
List<T>.indexOf(element: T): Int {\n return indexOf(element)\n}\n\n/**\n * Returns index of the first element
matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T>
Iterable<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n for (item in this) {\n
 checkIndexOverflow(index)\n if (predicate(item))\n return index\n index++\n }\n return -
1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the list does not contain
such element.\n */\npublic inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n
for (item in this) {\n if (predicate(item))\n return index\n index++\n }\n return -1\n}\n\n/**\n *
Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such
element.\n */\npublic inline fun <T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n var lastIndex = -
1\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (predicate(item))\n
lastIndex = index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns index of the last element matching
the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T>
List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n val iterator = this.listIterator(size)\n while
(iterator.hasPrevious()) {\n if (predicate(iterator.previous()))\n return iterator.nextIndex()\n }\n
return -1\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the collection
is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.last(): T
{\n when (this) {\n is List -> return this.last()\n else -> {\n val iterator = iterator()\n if
(!iterator.hasNext())\n throw NoSuchElementException("Collection is empty.")\n var last =
iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n }\n
}\n}\n\n/**\n * Returns the last element.\n */\n * @throws NoSuchElementException if the list is empty.\n */\n *
@sample samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.last(): T {\n if (isEmpty())\n throw
NoSuchElementException("List is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n */\n * @throws NoSuchElementException if no such element is found.\n
*/\n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T>
Iterable<T>.last(predicate: (T) -> Boolean): T {\n var last: T? = null\n var found = false\n for (element in this)
{\n if (predicate(element)) {\n last = element\n found = true\n }\n }\n if (!found) throw
NoSuchElementException("Collection contains no element matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return last as T\n}\n\n/**\n * Returns the last element matching the
given [predicate].\n */\n * @throws NoSuchElementException if no such element is found.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T
{\n val iterator = this.listIterator(size)\n while (iterator.hasPrevious()) {\n val element = iterator.previous()\n
 if (predicate(element)) return element\n }\n throw NoSuchElementException("List contains no element
matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain
element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n if
(this is List) return this.lastIndexOf(element)\n var lastIndex = -1\n var index = 0\n for (item in this) {\n
 checkIndexOverflow(index)\n if (element == item)\n lastIndex = index\n index++\n }\n return

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lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain element.\n
*\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n return
lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic fun <T> Iterable<T>.lastOrNull(): T? {\n when (this)
{\n is List -> return if (isEmpty()) null else this[size - 1]\n else -> {\n val iterator = iterator()\n
if (!iterator.hasNext())\n return null\n var last = iterator.next()\n while (iterator.hasNext())\n
 last = iterator.next()\n return last\n }\n }\n}\n\n/**\n * Returns the last element, or `null` if the
list is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n *\npublic fun <T>
List<T>.lastOrNull(): T? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element
matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun <T> Iterable<T>.lastOrNull(predicate: (T) ->
Boolean): T? {\n var last: T? = null\n for (element in this) {\n if (predicate(element)) {\n last =
element\n }\n }\n return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`
if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n *\npublic inline
fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n val iterator = this.listIterator(size)\n while
(iterator.hasPrevious()) {\n val element = iterator.previous()\n if (predicate(element)) return element\n }\n
return null\n}\n\n/**\n * Returns a random element from this collection.\n * \n * @throws
NoSuchElementException if this collection is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this collection is empty.\n
*\n@SinceKotlin("1.3")\npublic fun <T> Collection<T>.random(random: Random): T {\n if (isEmpty())\n throw
NoSuchElementException("Collection is empty.")\n return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns a
random element from this collection, or `null` if this collection is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Collection<T>.randomOrNull(): T? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
Collection<T>.randomOrNull(random: Random): T? {\n if (isEmpty())\n return null\n return
elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is
empty or has more than one element.\n *\npublic fun <T> Iterable<T>.single(): T {\n when (this) {\n is List -
> return this.single()\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n throw
NoSuchElementException("Collection is empty.")\n val single = iterator.next()\n if
(iterator.hasNext())\n throw IllegalArgumentException("Collection has more than one element.")\n return
single\n }\n }\n}\n\n/**\n * Returns the single element, or throws an exception if the list is empty or
has more than one element.\n *\npublic fun <T> List<T>.single(): T {\n return when (size) {\n 0 -> throw
NoSuchElementException("List is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("List has more than one element.")\n }\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n *\npublic
inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n var single: T? = null\n var found = false\n
for (element in this) {\n if (predicate(element)) {\n if (found) throw
IllegalArgumentException("Collection contains more than one matching element.")\n single = element\n
found = true\n }\n }\n if (!found) throw NoSuchElementException("Collection contains no element
matching the predicate.")\n @Suppress("UNCHECKED_CAST") return single as T\n}\n\n/**\n * Returns
single element, or `null` if the collection is empty or has more than one element.\n *\npublic fun <T>
Iterable<T>.singleOrNull(): T? {\n when (this) {\n is List -> return if (size == 1) this[0] else null\n else ->
{\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n val single =

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iterator.next()\n if (iterator.hasNext())\n return null\n return single\n }\n}\n\n/**\n * Returns single element, or `null` if the list is empty or has more than one element.\n */\npublic fun <T>\nList<T>.singleOrNull(): T? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Iterable<T>.drop(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return toList()\n val list: ArrayList<T>\n if (this is Collection<*>) {\n val resultSize = size - n\n if (resultSize <= 0)\n return emptyList()\n if (resultSize == 1)\n return listOf(last())\n list = ArrayList<T>(resultSize)\n }\n if (this is List<T>) {\n if (this is RandomAccess) {\n for (index in n until size)\n list.add(this[index])\n } else {\n for (item in listIterator(n))\n list.add(item)\n }\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n */\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n if (!predicate(iterator.previous()))\n return take(iterator.nextIndex() + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n */\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Iterable<T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n */\n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R> Iterable<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n */\n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n for (element in this) if (element is

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R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing all elements not matching
the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n * \npublic inline fun <T>
Iterable<T>.filterNot(predicate: (T) -> Boolean): List<T> {\n return filterNotTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNull\n * \npublic fun <T : Any> Iterable<T?>.filterNotNull():
List<T> {\n return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the
given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n * \npublic fun <C
: MutableCollection<in T>, T : Any> Iterable<T?>.filterNotNullTo(destination: C): C {\n for (element in this) if
(element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
* \npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterNotTo(destination: C, predicate: (T) ->
Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n * \npublic inline fun <T, C : MutableCollection<in
T>> Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if
(predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing elements
at indices in the specified [indices] range.\n * \npublic fun <T> List<T>.slice(indices: IntRange): List<T> {\n if
(indices.isEmpty()) return listOf()\n return this.subList(indices.start, indices.endInclusive + 1).toList()\n}\n\n/**\n
* Returns a list containing elements at specified [indices].\n * \npublic fun <T> List<T>.slice(indices:
Iterable<Int>): List<T> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n
val list = ArrayList<T>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n * \npublic fun <T> Iterable<T>.take(n: Int):
List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n if (this is Collection<T>) {\n if (n >= size) return toList()\n if (n == 1) return
listOf(first())\n }\n var count = 0\n val list = ArrayList<T>(n)\n for (item in this) {\n list.add(item)\n
if (++count == n)\n break\n }\n return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing
last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n * \npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(last())\n val list = ArrayList<T>(n)\n if (this is
RandomAccess) {\n for (index in size - n until size)\n list.add(this[index])\n } else {\n for (item in
listIterator(size - n))\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n * \npublic
inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n if (isEmpty())\n return
emptyList()\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n if
(!predicate(iterator.previous())) {\n iterator.next()\n val expectedSize = size - iterator.nextIndex()\n
if (expectedSize == 0) return emptyList()\n return ArrayList<T>(expectedSize).apply {\n while
(iterator.hasNext())\n add(iterator.next())\n }\n }\n }\n return toList()\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n * \npublic inline fun <T> Iterable<T>.takeWhile(predicate:
(T) -> Boolean): List<T> {\n val list = ArrayList<T>()\n for (item in this) {\n if (!predicate(item))\n
break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the list in-place.\n * \npublic
expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n *
\npublic fun <T> Iterable<T>.reversed(): List<T> {\n if (this is Collection && size <= 1) return toList()\n val
list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Randomly shuffles elements in this list in-place
using the specified [random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n

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*\n@SinceKotlin("1.3")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n this[j] = this.set(i, this[j])\n }\n}\n\n/**\n * Sorts elements
in the list in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic
inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n if (size > 1)
sortByWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to natural sort
order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>>
MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n if (size > 1)
sortByWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to
their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to
each other after sorting.\n */\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n sortByWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n if (this is Collection) {\n if (size <= 1)
return this.toList()\n @Suppress("UNCHECKED_CAST")\n return (toArray<Comparable<T>>()
as Array<T>).apply { sort() }.asList()\n }\n return toMutableList().apply { sort() }\n}\n\n/**\n * Returns a list of
all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n *
@sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural
sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return
sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T>
{\n return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to the specified
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\npublic fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {\n if (this is
Collection) {\n if (size <= 1) return this.toList()\n @Suppress("UNCHECKED_CAST")\n return
(toTypedArray<Any?>() as Array<T>).apply { sortByWith(comparator) }.asList()\n }\n return
toMutableList().apply { sortByWith(comparator) }\n}\n\n/**\n * Returns an array of Boolean containing all of the
elements of this collection.\n */\npublic fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n val result
= BooleanArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return
result\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this collection.\n */\npublic fun
Collection<Byte>.toByteArray(): ByteArray {\n val result = ByteArray(size)\n var index = 0\n for (element in
this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Char containing all of the
elements of this collection.\n */\npublic fun Collection<Char>.toCharArray(): CharArray {\n val result =
CharArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return
result\n}\n\n/**\n * Returns an array of Double containing all of the elements of this collection.\n */\npublic fun
Collection<Double>.toDoubleArray(): DoubleArray {\n val result = DoubleArray(size)\n var index = 0\n for
(element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Float
containing all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray(): FloatArray {\n
 val result = FloatArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n
 return result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n */\npublic
fun Collection<Int>.toIntArray(): IntArray {\n val result = IntArray(size)\n var index = 0\n for (element in
this)\n

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 result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Long containing all of the elements
of this collection.\n */\npublic fun Collection<Long>.toLongArray(): LongArray {\n val result =
LongArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return
result\n}\n\n/**\n * Returns an array of Short containing all of the elements of this collection.\n */\npublic fun
Collection<Short>.toShortArray(): ShortArray {\n val result = ShortArray(size)\n var index = 0\n for (element
in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns a [Map] containing key-value pairs
provided by [transform] function\n * applied to elements of the given collection.\n * \n * If any of two pairs would
have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order
of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associate\n */\npublic
inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K,
V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given collection indexed
by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K>
Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K,
T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and
indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>
Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with
key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given
collection\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in
K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n
destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and
value is provided by the [valueTransform] function applied to elements of the given collection.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K,
V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n * \n
* If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K, V, M : MutableMap<in
K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n
destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are
elements from the given collection and values are\n * produced by the [valueSelector] function applied to each
element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n */\npublic inline fun <K,

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V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K,
V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given collection,\n * where key is the element itself and value is provided by the [valueSelector]
function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the
map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*/\n\n@SinceKotlin("1.3")\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n
destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all elements to
the given [destination] collection.\n */\n\npublic fun <T, C : MutableCollection<in T>>
Iterable<T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return
destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\n\npublic fun <T> Iterable<T>.toHashSet():
HashSet<T> {\n return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n *
Returns a [List] containing all elements.\n */\n\npublic fun <T> Iterable<T>.toList(): List<T> {\n if (this is
Collection) {\n return when (size) {\n 0 -> emptyList()\n 1 -> listOf(if (this is List) get(0) else
iterator().next())\n else -> this.toMutableList()\n }\n }\n return
this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this collection.\n */\n\npublic fun <T> Iterable<T>.toMutableList(): MutableList<T> {\n if (this is Collection<T>)\n return this.toMutableList()\n return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a new [MutableList]
filled with all elements of this collection.\n */\n\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n
return ArrayList(this)\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element
iteration order of the original collection.\n */\n\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n if (this is
Collection) {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(if (this is List) this[0] else
iterator().next())\n else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n }\n return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements
yielded from results of [transform] function being invoked on each element of original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*/\n\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original collection.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original collection, to the given

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[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original collection, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npub
lic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original collection, to the given [destination].\n
*\npublic inline fun <T, R, C : MutableCollection<in
R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original collection, to the
given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\npublic inline
fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return
groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original collection\n * by the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,
List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given
[keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with
a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\npublic inline fun <T, K, M : MutableMap<in K,
MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n
 val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n
list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied
to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n
*\n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =

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destination.getOrPut(key) { ArrayList<V>() } list.add(valueTransform(element)) return
destination\n}\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold
operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n *\n@SinceKotlin("1.1")\npublic inline fun <T, K>
Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K>
{\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element:
T): K = keySelector(element)\n }\n}\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.map\n *\npublic inline fun <T, R> Iterable<T>.map(transform:
(T) -> R): List<R> {\n return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element and its index in
the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n *
and returns the result of the transform applied to the element.\n *\npublic inline fun <T, R>
Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n/**\n * Returns a list containing only
the non-null results of applying the given [transform] function\n * to each element and its index in the original
collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns
the result of the transform applied to the element.\n *\npublic inline fun <T, R : Any>
Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n/**\n * Applies the given [transform] function to each
element and its index in the original collection\n * and appends only the non-null results to the given [destination].\n
* @param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n *\npublic inline fun <T, R : Any, C : MutableCollection<in R>>
Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed {
index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n/**\n *
Applies the given [transform] function to each element and its index in the original collection\n * and appends the
results to the given [destination].\n * @param [transform] function that takes the index of an element and the
element itself\n * and returns the result of the transform applied to the element.\n *\npublic inline fun <T, R, C :
MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var
index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return
destination\n}\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each element in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.mapNotNull\n *\npublic inline fun <T, R : Any>
Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(),
transform)\n}\n/**\n * Applies the given [transform] function to each element in the original collection\n * and
appends only the non-null results to the given [destination].\n *\npublic inline fun <T, R : Any, C :
MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach {
element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n/**\n * Applies the given
[transform] function to each element of the original collection\n * and appends the results to the given
[destination].\n *\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C,
transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return
destination\n}\n/**\n * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an
[IndexValue] containing the index of that element and the element itself.\n *\npublic fun <T>
Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n/**\n *
Returns a list containing only distinct elements from the given collection.\n * \n * Among equal elements of the
given collection, only the first one will be present in the resulting list.\n * The elements in the resulting list are in
the same order as they were in the source collection.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *\npublic fun <T> Iterable<T>.distinct():

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List<T> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the
given collection\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the
given collection with equal keys, only the first one will be present in the resulting list.\n * The elements in the
resulting list are in the same order as they were in the source collection.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K>
Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\n
for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this collection and the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n * \n * To get a set containing all
elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T>
Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n
return set\n}\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given collection.\n * \n * The returned set preserves the element iteration order of the
original collection.\n */\npublic fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {\n val set =
this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element
iteration order of the original collection.\n * Those elements of the [other] collection that are unique are iterated in
the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in
both collections use [intersect].\n */\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n val
set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns `true` if all elements match the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T>
Iterable<T>.all(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return true\n for
(element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if collection has at
least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T>
Iterable<T>.any(): Boolean {\n if (this is Collection) return !isEmpty()\n return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T>
Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return false\n for
(element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in
this collection.\n */\npublic fun <T> Iterable<T>.count(): Int {\n if (this is Collection) return size\n var count =
0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Returns the number of
elements in this collection.\n */\n@kotlin.internal\npublic inline fun <T> Collection<T>.count(): Int {\n return
size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T>
Iterable<T>.count(predicate: (T) -> Boolean): Int {\n if (this is Collection && isEmpty()) return 0\n var count =
0\n for (element in this) if (predicate(element)) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
value and each element.\n * \n * Returns the specified [initial] value if the collection is empty.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n */\npublic inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var
accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Returns the
specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var

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index = 0\n var accumulator = initial\n for (element in this) accumulator =
operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element and current
accumulator value.\n * \n * Returns the specified [initial] value if the list is empty.\n * \n * @param [operation]
function that takes an element and current accumulator value, and calculates the next accumulator value.\n
*/\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var accumulator =
initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n
accumulator = operation(iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with
its index in the original list and current accumulator value.\n * \n * Returns the specified [initial] value if the list is
empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current
accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R>
List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var accumulator = initial\n if
(!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n val index =
iterator.previousIndex()\n accumulator = operation(index, iterator.previous(), accumulator)\n }\n }\n
return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential
index with the element.\n * @param [action] function that takes the index of an element and the element itself\n *
and performs the action on the element.\n */\npublic inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int,
T) -> Unit): Unit {\n var index = 0\n for (item in this) action(checkIndexOverflow(index++),
item)\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.1")\npublic fun Iterable<Double>.max(): Double? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.1")\npublic fun Iterable<Float>.max(): Float? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun <T :
Comparable<T>> Iterable<T>.max(): T? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull
instead.")\nReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T? {\n return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) ->
R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if
(!iterator.hasNext()) return maxElem\n var maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n } while
(iterator.hasNext())\n return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by
[selector] function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is
empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values

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produced by [selector] function is `NaN`, the returned result is `NaN`.  
if the collection is empty.

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) -> Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var\n maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all\n * values produced by [selector] function\n * applied to each element in the collection.\n * @throws\n * NoSuchElementException if the collection is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\nIterable<T>.maxOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw\n NoSuchElementException()\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v\n = selector(iterator.next())\n if (maxValue < v) {\n maxValue = v\n }\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to\n * each element in the collection or `null` if there are no elements.\n * If any of values produced by [selector]\n * function is `NaN`, the returned result is `NaN`.
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)\n-> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxValue =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue =\n maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * If any\n * of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)\n-> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxValue =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue =\n maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the collection or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\nIterable<T>.maxOfOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return\n null\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =\n selector(iterator.next())\n if (maxValue < v) {\n maxValue = v\n }\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the collection.\n * @throws\n * NoSuchElementException if the collection is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>\nIterable<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n val iterator = iterator()\n if\n (!iterator.hasNext()) throw NoSuchElementException()\n var maxValue = selector(iterator.next())\n while\n (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(maxValue, v) < 0) {\n \n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided\n * [comparator]\n * among all values produced by [selector] function applied to each element in the collection or `null`\n * if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
```

```

Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var max = selector(iterator.next())
 while (iterator.hasNext()) {
 val v = selector(iterator.next())
 if (comparator.compare(max, v) < 0) {
 max = v
 }
 }
 return max
}
Returns the largest element or `null` if there are no elements.
If any of elements is `NaN` returns `NaN`.
@SinceKotlin("1.4")
public fun
Iterable<Double>.maxOrNull(): Double? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var max = iterator.next()
 while (iterator.hasNext()) {
 val e = iterator.next()
 max = maxOf(max, e)
 }
 return max
}
Returns the largest element or `null` if there are no elements.
If any of elements is `NaN` returns `NaN`.
@SinceKotlin("1.4")
public fun
Iterable<Float>.maxOrNull(): Float? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var max = iterator.next()
 while (iterator.hasNext()) {
 val e = iterator.next()
 max = maxOf(max, e)
 }
 return max
}
Returns the largest element or `null` if there are no elements.
@SinceKotlin("1.4")
public fun
<T> : Comparable<T>> Iterable<T>.maxOrNull(): T? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var max = iterator.next()
 while (iterator.hasNext()) {
 val e = iterator.next()
 if (max < e) max = e
 }
 return max
}
@Deprecated("Use maxWithOrNull instead.",
ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun
<T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {
 return
maxWithOrNull(comparator)
}
Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.
@SinceKotlin("1.4")
public fun
<T> Iterable<T>.maxWithOrNull(comparator: Comparator<in T>): T? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var max = iterator.next()
 while (iterator.hasNext()) {
 val e =
iterator.next()
 if (comparator.compare(max, e) < 0) max = e
 }
 return max
}
@Deprecated("Use
minOrNull instead.",
ReplaceWith("this.minOrNull()"))
@DeprecatedSinceKotlin(warningSince =
"1.4")
@SinceKotlin("1.1")
public fun
Iterable<Double>.min(): Double? {
 return
minOrNull()
}
@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))
@DeprecatedSinceKotlin(warningSince =
"1.4")
@SinceKotlin("1.1")
public fun
Iterable<Float>.min(): Float? {
 return
minOrNull()
}
@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public fun
<T> : Comparable<T>> Iterable<T>.min(): T? {
 return minOrNull()
}
@Deprecated("Use minByOrNull
instead.",
ReplaceWith("this.minByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince =
"1.4")
public inline fun
<T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T? {
 return
minByOrNull(selector)
}
Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.
@sample samples.collections.Collections.Aggregates.minByOrNull
@SinceKotlin("1.4")
public inline fun
<T, R : Comparable<R>> Iterable<T>.minByOrNull(selector: (T) ->
R): T? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var minElem = iterator.next()
 if (!iterator.hasNext()) return minElem
 var minValue = selector(minElem)
 do {
 val e = iterator.next()
 val v = selector(e)
 if (minValue > v) {
 minElem = e
 minValue = v
 }
 } while (iterator.hasNext())
 return minElem
}
Returns the smallest value among all values produced by
[selector] function
applied to each element in the collection.
If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.
@throws NoSuchElementException if the collection is
empty.
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun
<T> Iterable<T>.minOf(selector: (T) ->
Double): Double {
 val iterator = iterator()
 if (!iterator.hasNext()) throw NoSuchElementException()
 var
minValue = selector(iterator.next())
 while (iterator.hasNext()) {
 val v = selector(iterator.next())
 minValue = minOf(minValue, v)
 }
 return minValue
}
Returns the smallest value among all
values produced by [selector] function
applied to each element in the collection.
If any of values

```

produced by [selector] function is `NaN`, the returned result is `NaN`.  
if the collection is empty.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) -> Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var\n minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all\n * values produced by [selector] function\n * applied to each element in the collection.\n * @throws\n * NoSuchElementException if the collection is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\nIterable<T>.minOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw\n NoSuchElementException()\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v\n = selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n * each element in the collection or `null` if there are no elements.\n * If any of values produced by [selector]\n * function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T)\n-> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue =\n minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * If any\n * of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T)\n-> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue =\n minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the collection or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\nIterable<T>.minOfOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return\n null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =\n selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the collection.\n * @throws\n * NoSuchElementException if the collection is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.minOfWith(comparator:\nComparator<in R>, selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw\n NoSuchElementException()\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v\n = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all\n * values produced by [selector] function applied to each element in the collection or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>\nIterable<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator =
```

```

iterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are
no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic fun
Iterable<Double>.minOrNull(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var
min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n min = minOf(min, e)\n }\n
return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements
is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic fun Iterable<Float>.minOrNull(): Float? {\n val
iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext())
{\n val e = iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest
element or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>>
Iterable<T>.minOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min =
iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min = e\n }\n return
min\n}\n\n@Deprecated("Use minOrNull instead.")\nReplaceWith("this.minOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
<T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n return
minOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the
provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T>
Iterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if
the collection has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin("1.4")\npublic fun
<T> Iterable<T>.none(): Boolean {\n if (this is Collection) return isEmpty()\n return
!iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin("1.4")\npublic inline fun <T>
Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return true\n for
(element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the given [action] on each
element and returns the collection itself afterwards.\n */\n@SinceKotlin("1.1")\npublic inline fun <T, C :
Iterable<T>> C.onEach(action: (T) -> Unit): C {\n return apply { for (element in this) action(element)
}\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and
returns the collection itself afterwards.\n * \n * @param [action] function that takes the index of an element and the
element itself\n * and performs the action on the element.\n */\n@SinceKotlin("1.4")\npublic inline fun <T, C :
Iterable<T>> C.onEachIndexed(action: (index: Int, T) -> Unit): C {\n return apply { forEachIndexed(action)
}\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to
current accumulator value and each element.\n * \n * Throws an exception if this collection is empty. If the
collection can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver
is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n val iterator = this.iterator()\n
if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")\n var
accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator,
iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each element with its index in the
original collection.\n * \n * Throws an exception if this collection is empty. If the collection can be empty in an
expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, current accumulator value and the element itself,\n
* and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val

```

```

iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't
be reduced.\")\n var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n
accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Returns
`null` if the collection is empty.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n * \n * @SinceKotlin(\"1.4\")\n * \n * public inline fun <S, T : S>
Iterable<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if
(!iterator.hasNext()) return null\n var index = 1\n var accumulator: S = iterator.next()\n while
(iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n
 }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the collection is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n * \n * @SinceKotlin(\"1.4\")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * \n * public inline fun <S, T : S>
Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if
(!iterator.hasNext()) return null\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an expected way,\n * please use
[reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n * \n * public inline fun <S, T : S>
List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n val iterator = listIterator(size)\n if
(!iterator.hasPrevious())\n throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n var
accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n accumulator =
operation(iterator.previous(), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the last element and applying [operation] from right to left\n * to each element with its index in the original list
and current accumulator value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n * \n * public inline fun <S, T : S>
List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n val iterator = listIterator(size)\n if
(!iterator.hasPrevious())\n throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n var
accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n
accumulator = operation(index, iterator.previous(), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original list and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n * \n * @SinceKotlin(\"1.4\")\n * \n * public inline fun <S,
T : S> List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n val iterator =
listIterator(size)\n if (!iterator.hasPrevious())\n return null\n var accumulator: S = iterator.previous()\n
while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n accumulator = operation(index,
iterator.previous(), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *

```



Returns `null` if the list is empty.

```

 * @param [operation] function that takes an element and current
 accumulator value,
 * and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.reduceRightOrNull
 */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 public inline fun <S, T : S>
 List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {
 val iterator = listIterator(size)
 if (!iterator.hasPrevious())
 return null
 var accumulator: S = iterator.previous()
 while (iterator.hasPrevious()) {
 accumulator = operation(iterator.previous(), accumulator)
 }
 return accumulator
 }

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

```

 * @param [operation] function that takes current accumulator value and an
 element, and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.runningFold
 */
 @SinceKotlin("1.4")
 public inline fun <T, R>
 Iterable<T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {
 val estimatedSize =
 collectionSizeOrDefault(9)
 if (estimatedSize == 0) return listOf(initial)
 val result =
 ArrayList<R>(estimatedSize + 1).apply { add(initial) }
 var accumulator = initial
 for (element in this) {
 accumulator = operation(accumulator, element)
 result.add(accumulator)
 }
 return result
 }

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original collection and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

```

 * @param [operation] function that takes the index of an element, current
 accumulator value
 * and the element itself, and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.runningFold
 */
 @SinceKotlin("1.4")
 public inline fun <T, R>
 Iterable<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
 val estimatedSize =
 collectionSizeOrDefault(9)
 if (estimatedSize == 0) return listOf(initial)
 val result =
 ArrayList<R>(estimatedSize + 1).apply { add(initial) }
 var index = 0
 var accumulator = initial
 for (element in this) {
 accumulator = operation(index++, accumulator, element)
 result.add(accumulator)
 }
 return result
 }

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this collection.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

```

 * @param [operation] function that takes current accumulator
 value and the element, and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.runningReduce
 */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 public inline fun <S, T : S>
 Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {
 val iterator = this.iterator()
 if (!iterator.hasNext()) return emptyList()
 var accumulator: S = iterator.next()
 val result =
 ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }
 while (iterator.hasNext()) {
 accumulator = operation(accumulator, iterator.next())
 result.add(accumulator)
 }
 return result
 }

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original collection and current accumulator value that starts with the first element of this collection.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

```

 * @param [operation] function that takes the
 index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator
 value.
 * @sample
 samples.collections.Collections.Aggregates.runningReduce
 */
 @SinceKotlin("1.4")
 public inline fun <S, T : S>
 Iterable<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
 val iterator = this.iterator()
 if (!iterator.hasNext()) return emptyList()
 var accumulator: S = iterator.next()
 val result = ArrayList<S>(collectionSizeOrDefault(10)).apply {
 add(accumulator)
 }
 var index = 1
 while (iterator.hasNext()) {
 accumulator = operation(index++,

```

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accumulator, iterator.next())\n result.add(accumulator)\n } \n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element, its index in the original collection and current accumulator value that starts
with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n@Deprecated("Use runningReduce instead.",
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Iterable<T>.scanReduce(operation: (acc: S, T) -> S): List<S> {\n return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Iterable<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n return
runningReduceIndexed(operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the collection.\n *\n@public inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int
{\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n *\n@public inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for
(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the collection.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Iterable<T>.sumOf(selector: (T) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the collection.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.sumOf(selector: (T) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the collection.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Iterable<T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
 sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the collection.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal

```

```

.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {\n var sum: UInt =
0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the
sum of all values produced by [selector] function applied to each element in the collection.\n
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns
an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are
any `null` elements.\n
\n\npublic fun <T : Any> Iterable<T?.>.requireNonNulls(): Iterable<T> {\n for (element in
this) {\n if (element == null) {\n throw IllegalArgumentException("null element found in $this.")\n
 }\n }\n @Suppress("UNCHECKED_CAST")\n return this as Iterable<T>\n}\n\n/**\n * Returns an original
collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null`
elements.\n
\n\npublic fun <T : Any> List<T?.>.requireNonNulls(): List<T> {\n for (element in this) {\n if
(element == null) {\n throw IllegalArgumentException("null element found in $this.")\n }\n }\n
 @Suppress("UNCHECKED_CAST")\n return this as List<T>\n}\n\n/**\n * Splits this collection into a list of
lists each not exceeding the given [size].\n
\n\n * The last list in the resulting list may have fewer elements than the
given [size].\n
\n\n * @param size the number of elements to take in each list, must be positive and can be greater
than the number of elements in this collection.\n
\n\n * @sample
samples.collections.Collections.Transformations.chunked\n
\n\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.chunked(size: Int): List<List<T>> {\n return windowed(size, size, partialWindows = true)\n}\n\n/**\n
* Splits this collection into several lists each not exceeding the given [size]\n
* and applies the given [transform]
function to an each.\n
\n\n * @return list of results of the [transform] applied to an each list.\n
\n\n * Note that the
list passed to the [transform] function is ephemeral and is valid only inside that function.\n
* You should not store it
or allow it to escape in some way, unless you made a snapshot of it.\n
* The last list may have fewer elements than
the given [size].\n
\n\n * @param size the number of elements to take in each list, must be positive and can be
greater than the number of elements in this collection.\n
\n\n * @sample samples.text.Strings.chunkedTransform\n
\n\n@SinceKotlin("1.2")\npublic fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R>
{\n return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a list
containing all elements of the original collection without the first occurrence of the given [element].\n
\n\npublic
operator fun <T> Iterable<T>.minus(element: T): List<T> {\n val result =
ArrayList<T>(collectionSizeOrDefault(10))\n var removed = false\n return this.filterTo(result) { if (!removed
&& it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a list containing all elements of the
original collection except the elements contained in the given [elements] array.\n
\n\n * The [elements] array may be
converted to a [HashSet] to speed up the operation, thus the elements are required to have\n
* a correct and stable
implementation of `hashCode()` that doesn't change between successive invocations.\n
\n\npublic operator fun <T>
Iterable<T>.minus(elements: Array<out T>): List<T> {\n if (elements.isEmpty()) return this.toList()\n val other
= elements.toHashSet()\n return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of
the original collection except the elements contained in the given [elements] collection.\n
\n\n * The [elements]
collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n
* a
correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n
\n\npublic
operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {\n val other =
elements.convertToSetForSetOperationWith(this)\n if (other.isEmpty())\n return this.toList()\n return
this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the
elements contained in the given [elements] sequence.\n
\n\n * The [elements] sequence may be converted to a
[HashSet] to speed up the operation, thus the elements are required to have\n
* a correct and stable implementation
of `hashCode()` that doesn't change between successive invocations.\n
\n\npublic operator fun <T>
Iterable<T>.minus(elements: Sequence<T>): List<T> {\n val other = elements.toHashSet()\n if
(other.isEmpty())\n return this.toList()\n return this.filterNot { it in other }\n}\n\n/**\n * Returns a list

```

containing all elements of the original collection without the first occurrence of the given [element].

```

*@\kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minusElement(element: T): List<T> {\n
return minus(element)\n}\n\n/**\n * Splits the original collection into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n * \n * @sample samples.collections.Iterables.Operations.partition\n *@\npublic inline fun <T>
Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n val first = ArrayList<T>()\n val
second = ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n
} else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Returns a list
containing all elements of the original collection and then the given [element].\n *@\npublic operator fun <T>
Iterable<T>.plus(element: T): List<T> {\n if (this is Collection) return this.plus(element)\n val result =
ArrayList<T>()\n result.addAll(this)\n result.add(element)\n return result\n}\n\n/**\n * Returns a list
containing all elements of the original collection and then the given [element].\n *@\npublic operator fun <T>
Collection<T>.plus(element: T): List<T> {\n val result = ArrayList<T>(size + 1)\n result.addAll(this)\n
result.add(element)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original
collection and then all elements of the given [elements] array.\n *@\npublic operator fun <T> Iterable<T>.plus(elements:
Array<out T>): List<T> {\n if (this is Collection) return this.plus(elements)\n val result = ArrayList<T>()\n
result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all
elements of the original collection and then all elements of the given [elements] array.\n *@\npublic operator fun <T>
Collection<T>.plus(elements: Array<out T>): List<T> {\n val result = ArrayList<T>(this.size + elements.size)\n
result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all
elements of the original collection and then all elements of the given [elements] collection.\n *@\npublic operator fun <T>
Iterable<T>.plus(elements: Iterable<T>): List<T> {\n if (this is Collection) return this.plus(elements)\n val
result = ArrayList<T>()\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a
list containing all elements of the original collection and then all elements of the given [elements] collection.\n
*\n *@\npublic operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {\n if (elements is Collection)
{\n val result = ArrayList<T>(this.size + elements.size)\n result.addAll(this)\n
result.addAll(elements)\n return result\n } else {\n val result = ArrayList<T>(this)\n
result.addAll(elements)\n return result\n }\n}\n\n/**\n * Returns a list containing all elements of the original
collection and then all elements of the given [elements] sequence.\n *@\npublic operator fun <T>
Iterable<T>.plus(elements: Sequence<T>): List<T> {\n val result = ArrayList<T>()\n result.addAll(this)\n
result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all elements of the original
collection and then all elements of the given [elements] sequence.\n *@\npublic operator fun <T>
Collection<T>.plus(elements: Sequence<T>): List<T> {\n val result = ArrayList<T>(this.size + 10)\n
result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a list containing all
elements of the original collection and then the given [element].\n *@\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.plusElement(element: T): List<T> {\n return plus(element)\n}\n\n/**\n * Returns a list containing all
elements of the original collection and then the given [element].\n *@\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Collection<T>.plusElement(element: T): List<T> {\n return plus(element)\n}\n\n/**\n * Returns a list of
snapshots of the window of the given [size]\n * sliding along this collection with the given [step], where each\n *
snapshot is a list.\n * \n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and
[step] must be positive and can be greater than the number of elements in this collection.\n * @param size the
number of elements to take in each window\n * @param step the number of elements to move the window forward
by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the
end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.takeWindows\n *@\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n
checkWindowSizeStep(size, step)\n if (this is RandomAccess && this is List) {\n val thisSize = this.size\n
val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n val result =

```

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ArrayList<List<T>>(resultCapacity)\n var index = 0\n while (index in 0 until thisSize) {\n val\n windowSize = size.coerceAtMost(thisSize - index)\n if (windowSize < size && !partialWindows) break\n result.add(List(windowSize) { this[it + index] })\n index += step\n }\n return result\n }\n val\n result = ArrayList<List<T>>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer =\n false).forEach {\n result.add(it)\n }\n return result\n }\n\n * Returns a list of results of applying the\n given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding\n along this collection with the given [step].\n * Note that the list passed to the [transform] function is ephemeral\n and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made\n a snapshot of it.\n * Several last lists may have fewer elements than the given [size].\n * Both [size] and [step]\n must be positive and can be greater than the number of elements in this collection.\n * @param size the number of\n elements to take in each window\n * @param step the number of elements to move the window forward by on an\n each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if\n any,\n * by default `false` which means partial windows won't be preserved\n * @sample\n samples.collections.Sequences.Transformations.averageWindows\n *\n @SinceKotlin("1.2")\n public fun <T, R>\n Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):\n List<R> {\n checkWindowSizeStep(size, step)\n if (this is RandomAccess && this is List) {\n val thisSize =\n this.size\n val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n val result =\n ArrayList<R>(resultCapacity)\n val window = MovingSubList(this)\n var index = 0\n while (index in 0\n until thisSize) {\n val windowSize = size.coerceAtMost(thisSize - index)\n if (!partialWindows &&\n windowSize < size) break\n window.move(index, index + windowSize)\n result.add(transform(window))\n index += step\n }\n return result\n }\n val result =\n ArrayList<R>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n result.add(transform(it))\n }\n return result\n }\n\n * Returns a list of pairs built from the elements of `this`\n collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * @sample\n samples.collections.Iterables.Operations.zipIterable\n *\n public infix fun <T, R> Iterable<T>.zip(other:\n Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n }\n\n * Returns a list of values\n built from the elements of `this` collection and the [other] array with the same index\n * using the provided\n [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n *\n public inline fun <T, R, V>\n Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n val arraySize = other.size\n val\n list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in this) {\n if\n (i >= arraySize) break\n list.add(transform(element, other[i++]))\n }\n return list\n }\n\n * Returns a list\n of pairs built from the elements of `this` collection and [other] collection with the same index.\n * The returned list\n has length of the shortest collection.\n * @sample\n samples.collections.Iterables.Operations.zipIterable\n *\n public infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 ->\n t1 to t2 }\n }\n\n * Returns a list of values built from the elements of `this` collection and the [other] collection\n with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned\n list has length of the shortest collection.\n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n *\n public inline fun <T, R, V>\n Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n val first = iterator()\n val second\n = other.iterator()\n val list = ArrayList<V>(minOf(collectionSizeOrDefault(10),\n other.collectionSizeOrDefault(10)))\n while (first.hasNext() && second.hasNext()) {\n list.add(transform(first.next(), second.next()))\n }\n return list\n }\n\n * Returns a list of pairs of each two\n adjacent elements in this collection.\n * The returned list is empty if this collection contains less than two\n elements.\n * @sample\n samples.collections.Collections.Transformations.zipWithNext\n *\n @SinceKotlin("1.2")\n public fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n return zipWithNext\n { a, b -> a to b }\n }\n\n * Returns a list containing the results of applying the given [transform] function\n * to\n an each pair of two adjacent elements in this collection.\n * The returned list is empty if this collection contains

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less than two elements.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n * \n @SinceKotlin("1.2")\npublic
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n val iterator = iterator()\n if
(!iterator.hasNext()) return emptyList()\n val result = mutableListOf<R>()\n var current = iterator.next()\n
while (iterator.hasNext()) {\n val next = iterator.next()\n result.add(transform(current, next))\n current
= next\n }\n return result\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and
using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the
[truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n * \n @public fun <T, A : Appendable>
Iterable<T>.joinTo(buffer: A, separator: CharSequence = '\n', prefix: CharSequence = "\n", postfix: CharSequence
= "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n
 if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n } else break\n }\n
(limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n *
Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only
the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n *
@sample samples.collections.Collections.Transformations.joinToString\n * \n @public fun <T>
Iterable<T>.joinToString(separator: CharSequence = '\n', prefix: CharSequence = "\n", postfix: CharSequence =
"\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {\n return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Returns this
collection as an [Iterable].\n * \n @kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.asIterable():
Iterable<T> {\n return this\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original collection returning
its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromCollection\n * \n @public fun <T> Iterable<T>.asSequence():
Sequence<T> {\n return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the
collection.\n * \n @kotlin.jvm.JvmName("averageOfByte")\npublic fun Iterable<Byte>.average(): Double {\n var
sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n * \n @kotlin.jvm.JvmName("averageOfShort")\npublic fun
Iterable<Short>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*\n @kotlin.jvm.JvmName("averageOfInt")\npublic fun Iterable<Int>.average(): Double {\n var sum: Double =
0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n
 }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the
collection.\n * \n @kotlin.jvm.JvmName("averageOfLong")\npublic fun Iterable<Long>.average(): Double {\n
var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n * \n @kotlin.jvm.JvmName("averageOfFloat")\npublic fun
Iterable<Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*\n @kotlin.jvm.JvmName("averageOfDouble")\npublic fun Iterable<Double>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the collection.\n * \n @kotlin.jvm.JvmName("sumOfByte")\npublic fun

```

```

Iterable<Byte>.sum(): Int {
 var sum: Int = 0
 for (element in this) {
 sum += element
 }
 return sum
}

/** Returns the sum of all elements in the collection. */
@kotlin.jvm.JvmName("sumOfShort")
public fun Iterable<Short>.sum(): Int {
 var sum: Int = 0
 for (element in this) {
 sum += element
 }
 return sum
}

/** Returns the sum of all elements in the collection. */
@kotlin.jvm.JvmName("sumOfInt")
public fun Iterable<Int>.sum(): Int {
 var sum: Int = 0
 for (element in this) {
 sum += element
 }
 return sum
}

/** Returns the sum of all elements in the collection. */
@kotlin.jvm.JvmName("sumOfLong")
public fun Iterable<Long>.sum(): Long {
 var sum: Long = 0L
 for (element in this) {
 sum += element
 }
 return sum
}

/** Returns the sum of all elements in the collection. */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Iterable<Float>.sum(): Float {
 var sum: Float = 0.0f
 for (element in this) {
 sum += element
 }
 return sum
}

/** Returns the sum of all elements in the collection. */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Iterable<Double>.sum(): Double {
 var sum: Double = 0.0
 for (element in this) {
 sum += element
 }
 return sum
}

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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */
package kotlin.collections
import kotlin.comparisons.naturalOrder
import kotlin.random.Random

/** Returns the array if it's not `null`, or an empty array otherwise. */
@kotlin.internal.InlineOnly
public actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?: emptyArray<T>()

@kotlin.internal.InlineOnly
public actual inline fun <T> Collection<T>.toArray(): Array<T> = copyToArray(this)

@JsName("copyToArray")
@PublishedApi
internal fun <T> copyToArray(collection: Collection<T>): Array<T> {
 return if (collection.asDynamic().toArray !== undefined)
 collection.asDynamic().toArray().unsafeCast<Array<T>>()
 else
 copyToArrayImpl(collection).unsafeCast<Array<T>>()
}

@JsName("copyToArrayImpl")
internal actual fun copyToArrayImpl(collection: Collection<*>): Array<Any?> {
 val array = emptyArray<Any?>()
 val iterator = collection.iterator()
 while (iterator.hasNext())
 array.asDynamic().push(iterator.next())
 return array
}

@JsName("copyToExistingArrayImpl")
internal actual fun <T> copyToArrayImpl(collection: Collection<*>, array: Array<T>): Array<T> {
 if (array.size < collection.size)
 return copyToArrayImpl(collection).unsafeCast<Array<T>>()
 val iterator = collection.iterator()
 var index = 0
 while (iterator.hasNext()) {
 array[index++] = iterator.next().unsafeCast<T>()
 }
 if (index < array.size)
 array[index] = null.unsafeCast<T>()
 return array
}

/** Returns an immutable list containing only the specified object [element]. */
@kotlin.jvm.JvmName("listOf")
public fun <T> listOf(element: T): List<T> = arrayListOf(element)

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
internal actual inline fun <E> buildListInternal(builderAction: MutableList<E>().->Unit): List<E> {
 return ArrayList<E>().apply(builderAction).build()
}

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
internal actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().->Unit): List<E> {
 checkBuilderCapacity(capacity)
 return ArrayList<E>(capacity).apply(builderAction).build()
}

/** Returns an immutable set containing only the specified object [element]. */
@kotlin.jvm.JvmName("setOf")
public fun <T> setOf(element: T): Set<T> = hashSetOf(element)

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
internal actual inline fun <E> buildSetInternal(builderAction: MutableSet<E>().->Unit): Set<E> {
 return LinkedHashSet<E>().apply(builderAction).build()
}

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
internal actual inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().->Unit): Set<E> {
 return LinkedHashSet<E>(capacity).apply(builderAction).build()
}

/** Returns an immutable map, mapping only the specified key to the specified value. */
@kotlin.jvm.JvmName("mapOf")
public fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> = hashMapOf(pair)

@PublishedApi
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly

```

```

ly\ninternal actual inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>.() -> Unit): Map<K, V>
{\n return LinkedHashMap<K,
V>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\ninternal actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction:
MutableMap<K, V>.() -> Unit): Map<K, V> {\n return LinkedHashMap<K,
V>(capacity).apply(builderAction).build()\n}\n\n/**\n * Fills the list with the provided [value].\n * Each
element in the list gets replaced with the [value].\n */\n@SinceKotlin("1.2")\npublic actual fun <T>
MutableList<T>.fill(value: T): Unit {\n for (index in 0..lastIndex) {\n this[index] = value\n }\n}\n\n/**\n *
Randomly shuffles elements in this list.\n */\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*/\n@SinceKotlin("1.2")\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n/**\n *
Returns a new list with the elements of this list randomly shuffled.\n */\n@SinceKotlin("1.2")\npublic actual fun
<T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n\n/**\n * Sorts elements in the list in-
place according to their natural sort order.\n */\n * The sort is _stable_. It means that equal elements preserve their
order relative to each other after sorting.\n */\npublic actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit
{\n Collections.sort(this, naturalOrder())\n}\n\n/**\n * Sorts elements in the list in-place according to the order
specified with [comparator].\n */\n * The sort is _stable_. It means that equal elements preserve their order relative to
each other after sorting.\n */\npublic actual fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>):
Unit {\n Collections.sort(this, comparator)\n}\n\nprivate fun <T> Collections.sort(list: MutableList<T>,
comparator: Comparator<in T>) {\n if (list.size <= 1) return\n\n val array = copyToArray(list)\n sortArrayWith(array, comparator)\n\n for (i in 0 until array.size) {\n list[i] = array[i]\n }\n}\n\ninternal
actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {\n return
arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@JsName("arrayCopy")\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int,
startIndex: Int, endIndex: Int) {\n AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\n val
rangeSize = endIndex - startIndex\n AbstractList.checkRangeIndexes(destinationOffset, destinationOffset +
rangeSize, destination.size)\n\n if (js("ArrayBuffer").isView(destination) &&
js("ArrayBuffer").isView(source)) {\n val subrange = source.asDynamic().subarray(startIndex, endIndex)\n destination.asDynamic().set(subrange, destinationOffset)\n } else {\n if (source !== destination ||
destinationOffset <= startIndex) {\n for (index in 0 until rangeSize) {\n
destination[destinationOffset + index] = source[startIndex + index]\n }\n } else {\n for (index in
rangeSize - 1 downTo 0) {\n destination[destinationOffset + index] = source[startIndex + index]\n }\n }\n }\n}\n\n// no singleton map implementation in js, return map as
is\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <K, V> Map<K,
V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline
fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> =
this.toMutableMap()\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <T> Array<out
T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n if (isVarargs)\n // no need to copy vararg
array in JS\n this\n else\n this.copyOfOf()\n\n\n@PublishedApi\ninternal actual fun
checkIndexOverflow(index: Int): Int {\n if (index < 0) {\n throwIndexOverflow()\n }\n return
index\n}\n\n@PublishedApi\ninternal actual fun checkCountOverflow(count: Int): Int {\n if (count < 0) {\n
throwCountOverflow()\n }\n return count\n}\n\n\n/**\n * JS map and set implementations do not make use of
capacities or load factors.\n */\n@PublishedApi\ninternal actual fun mapCapacity(expectedSize: Int) =
expectedSize\n\n/**\n * Checks a collection builder function capacity argument.\n */\n * In JS no validation is made in
Map/Set constructor yet.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@PublishedApi\ninternal fun
checkBuilderCapacity(capacity: Int) {\n require(capacity >= 0) { "capacity must be non-negative." }\n}\n\n/*\n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```



```

*^/\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("\CollectionsKt")\n\npackage
kotlin.collections\n\n/n/**\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
loop.\n * @sample samples.collections.Iterators.iterator\n *^/\n\n@kotlin.internal.InlineOnly\n\npublic inline operator
fun <T> Iterator<T>.iterator(): Iterator<T> = this\n\n/n/**\n * Returns an [Iterator] that wraps each element produced
by the original iterator\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n *
@sample samples.collections.Iterators.withIndexIterator\n *^/\n\npublic fun <T> Iterator<T>.withIndex():
Iterator<IndexedValue<T>> = IndexingIterator(this)\n\n/n/**\n * Performs the given [operation] on each element of
this [Iterator].\n * @sample samples.collections.Iterators.forEachIterator\n *^/\n\npublic inline fun <T>
Iterator<T>.forEach(operation: (T) -> Unit): Unit {\n for (element in this) operation(element)\n}\n\n/n/**\n *
Iterator transforming original `iterator` into iterator of [IndexedValue], counting index from zero.\n *^/\n\ninternal class
IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {\n private var index =
0\n final override fun hasNext(): Boolean = iterator.hasNext()\n final override fun next(): IndexedValue<T> =
IndexedValue(checkIndexOverflow(index++), iterator.next())\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*^/\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("\ComparisonsKt")\n\npackage
kotlin.comparisons\n\n/n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/n\nimport kotlin.random.*\n\n/n/**\n * Returns the
greater of two values.\n * \n * If values are equal, returns the first one.\n *^/\n\n@SinceKotlin("1.1")\n\npublic expect
fun <T : Comparable<T>> maxOf(a: T, b: T): T\n\n/n/**\n * Returns the greater of two values.\n
*^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a: Byte, b: Byte):
Byte\n\n/n/**\n * Returns the greater of two values.\n *^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic
expect inline fun maxOf(a: Short, b: Short): Short\n\n/n/**\n * Returns the greater of two values.\n
*^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n/n/**\n
* Returns the greater of two values.\n *^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline
fun maxOf(a: Long, b: Long): Long\n\n/n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`,
returns `NaN`.\n *^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a: Float,
b: Float): Float\n\n/n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n
*^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a: Double, b: Double):
Double\n\n/n/**\n * Returns the greater of three values.\n * \n * If there are multiple equal maximal values, returns the
first of them.\n *^/\n\n@SinceKotlin("1.1")\n\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T, c: T):
T\n\n/n/**\n * Returns the greater of three values.\n *^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic
expect inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte\n\n/n/**\n * Returns the greater of three values.\n
*^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a: Short, b: Short, c:
Short): Short\n\n/n/**\n * Returns the greater of three values.\n
*^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a: Int, b: Int, c: Int):
Int\n\n/n/**\n * Returns the greater of three values.\n *^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic
expect inline fun maxOf(a: Long, b: Long, c: Long): Long\n\n/n/**\n * Returns the greater of three values.\n * \n * If
any value is `NaN`, returns `NaN`.\n *^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline
fun maxOf(a: Float, b: Float, c: Float): Float\n\n/n/**\n * Returns the greater of three values.\n * \n * If any value is
`NaN`, returns `NaN`.\n *^/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf(a:
Double, b: Double, c: Double): Double\n\n/n/**\n * Returns the greater of three values according to the order
specified by the given [comparator].\n * \n * If there are multiple equal maximal values, returns the first of them.\n
*^/\n\n@SinceKotlin("1.1")\n\npublic fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n return
maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n/n/**\n * Returns the greater of two values according to the
order specified by the given [comparator].\n * \n * If values are equal, returns the first one.\n
*^/\n\n@SinceKotlin("1.1")\n\npublic fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {\n return if
(comparator.compare(a, b) >= 0) a else b\n}\n\n/n/**\n * Returns the greater of the given values.\n * \n * If there are

```

multiple equal maximal values, returns the first of them.

```

@SinceKotlin("1.4")
public expect fun <T> : Comparable<T>> maxOf(a: T, vararg other: T): T {
 var max = a
 for (e in other) if (comparator.compare(max, e) < 0) max = e
 return max
}

```

Returns the greater of the given values.

```

@SinceKotlin("1.4")
public expect fun maxOf(a: Byte, vararg other: Byte): Byte {
 var max = a
 for (e in other) if (e > max) max = e
 return max
}

```

Returns the greater of the given values.

```

@SinceKotlin("1.4")
public expect fun maxOf(a: Short, vararg other: Short): Short {
 var max = a
 for (e in other) if (e > max) max = e
 return max
}

```

Returns the greater of the given values.

```

@SinceKotlin("1.4")
public expect fun maxOf(a: Int, vararg other: Int): Int {
 var max = a
 for (e in other) if (e > max) max = e
 return max
}

```

Returns the greater of the given values.

```

@SinceKotlin("1.4")
public expect fun maxOf(a: Long, vararg other: Long): Long {
 var max = a
 for (e in other) if (e > max) max = e
 return max
}

```

Returns the greater of the given values.

```

@SinceKotlin("1.4")
public expect fun maxOf(a: Float, vararg other: Float): Float {
 var max = a
 for (e in other) if (e > max) max = e
 return max
}

```

Returns the greater of the given values. If any value is NaN, returns NaN.

```

@SinceKotlin("1.4")
public expect fun maxOf(a: Double, vararg other: Double): Double {
 var max = a
 for (e in other) if (e > max) max = e
 return max
}

```

Returns the greater of the given values according to the order specified by the given [comparator]. If there are multiple equal maximal values, returns the first of them.

```

@SinceKotlin("1.4")
public fun <T> maxOf(a: T, vararg other: T, comparator: Comparator<in T>): T {
 var max = a
 for (e in other) if (comparator.compare(max, e) < 0) max = e
 return max
}

```

Returns the smaller of two values. If values are equal, returns the first one.

```

@SinceKotlin("1.1")
public expect fun <T> : Comparable<T>> minOf(a: T, b: T): T {
 return if (a < b) a else b
}

```

Returns the smaller of two values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Byte, b: Byte): Byte {
 return if (a < b) a else b
}

```

Returns the smaller of two values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Short, b: Short): Short {
 return if (a < b) a else b
}

```

Returns the smaller of two values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Int, b: Int): Int {
 return if (a < b) a else b
}

```

Returns the smaller of two values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Long, b: Long): Long {
 return if (a < b) a else b
}

```

Returns the smaller of two values. If either value is NaN, returns NaN.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Float, b: Float): Float {
 return if (a < b) a else b
}

```

Returns the smaller of two values. If either value is NaN, returns NaN.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Double, b: Double): Double {
 return if (a < b) a else b
}

```

Returns the smaller of three values. If there are multiple equal minimal values, returns the first of them.

```

@SinceKotlin("1.1")
public expect fun <T> : Comparable<T>> minOf(a: T, b: T, c: T): T {
 return if (a < b) a else if (a < c) a else b
}

```

Returns the smaller of three values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {
 return if (a < b) a else if (a < c) a else b
}

```

Returns the smaller of three values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Short, b: Short, c: Short): Short {
 return if (a < b) a else if (a < c) a else b
}

```

Returns the smaller of three values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Int, b: Int, c: Int): Int {
 return if (a < b) a else if (a < c) a else b
}

```

Returns the smaller of three values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Long, b: Long, c: Long): Long {
 return if (a < b) a else if (a < c) a else b
}

```

Returns the smaller of three values. If any value is NaN, returns NaN.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Float, b: Float, c: Float): Float {
 return if (a < b) a else if (a < c) a else b
}

```

Returns the smaller of three values. If any value is NaN, returns NaN.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Double, b: Double, c: Double): Double {
 return if (a < b) a else if (a < c) a else b
}

```

Returns the smaller of three values according to the order specified by the given [comparator]. If there are multiple equal minimal values, returns the first of them.

```

@SinceKotlin("1.1")
public fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {
 return if (comparator.compare(a, b) <= 0) a else if (comparator.compare(a, c) <= 0) a else b
}

```

Returns the smaller of two values according to the order specified by the given [comparator]. If values are equal, returns the first one.

```

@SinceKotlin("1.1")
public fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {
 return if (comparator.compare(a, b) <= 0) a else b
}

```

Returns the smaller of the given values. If there are multiple equal minimal values, returns the first of them.

```

@SinceKotlin("1.4")
public expect fun <T> : Comparable<T>> minOf(a: T, vararg other: T): T {
 var min = a
 for (e in other) if (e < min) min = e
 return min
}

```

Returns the smaller of the given values.

```

@SinceKotlin("1.4")
public expect fun minOf(a: Byte, vararg other: Byte): Byte {
 var min = a
 for (e in other) if (e < min) min = e
 return min
}

```

Returns the smaller of the given values.

smaller of the given values.\n \*  
`@SinceKotlin("1.4")\npublic expect fun minOf(a: Short, vararg other: Short): Short`  
Returns the smaller of the given values.\n \*  
`@SinceKotlin("1.4")\npublic expect fun minOf(a: Int, vararg other: Int): Int`  
Returns the smaller of the given values.\n \*  
`@SinceKotlin("1.4")\npublic expect fun minOf(a: Long, vararg other: Long): Long`  
Returns the smaller of the given values.\n \*  
If any value is `NaN`, returns `NaN`.\n \*  
`@SinceKotlin("1.4")\npublic expect fun minOf(a: Float, vararg other: Float): Float`  
Returns the smaller of the given values.\n \*  
If any value is `NaN`, returns `NaN`.\n \*  
`@SinceKotlin("1.4")\npublic expect fun minOf(a: Double, vararg other: Double): Double`  
Returns the smaller of the given values according to the order specified by the given [comparator].\n \*  
If there are multiple equal minimal values, returns the first of them.\n \*  
`@SinceKotlin("1.4")\npublic fun <T> minOf(a: T, vararg other: T, comparator: Comparator<in T>): T` {\n var min = a\n for (e in other) if (comparator.compare(min, e) > 0) min = e\n return min}\n \*  
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Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

`@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage kotlin.collections\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed`  
Returns a [List] containing all key-value pairs.\n \*  
`public fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>>` {\n if (size == 0)\n return emptyList()\n val iterator = entries.iterator()\n if (!iterator.hasNext())\n return emptyList()\n val first = iterator.next()\n if (!iterator.hasNext())\n return listOf(first.toPair())\n val result = ArrayList<Pair<K, V>>(size)\n result.add(first.toPair())\n do {\n result.add(iterator.next().toPair())\n } while (iterator.hasNext())\n return result}\n \*  
Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n \*  
`@sample samples.collections.Maps.Transformations.flatMap`  
`public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R>` {\n return flatMapTo(ArrayList<R>(), transform)}\n \*  
Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n \*  
`@sample samples.collections.Collections.Transformations.flatMap`

`@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R>` {\n return flatMapTo(ArrayList<R>(), transform)}\n \*  
Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].\n \*  
`public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C` {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination}\n \*  
Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].\n

`@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Sequence<R>): C` {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination}\n \*  
Returns a list containing the results of applying the given [transform] function\n \*  
to each entry in the original map.\n \*  
`@sample`

`samples.collections.Maps.Transformations.mapToList`  
`public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R>` {\n return mapTo(ArrayList<R>(size), transform)}\n \*  
Returns a list containing only the non-null results of applying the given [transform] function\n \*  
to each entry in the original map.\n \*  
`@sample`

`samples.collections.Maps.Transformations.mapNotNull`  
`public inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R>` {\n return mapNotNullTo(ArrayList<R>(),

```

transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends
only the non-null results to the given [destination].\n */\npublic inline fun <K, V, R : Any, C : MutableCollection<in
R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n forEach {
element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given
[transform] function to each entry of the original map\n * and appends the results to the given [destination].\n
*/\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform:
(Map.Entry<K, V>) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return
destination\n}\n\n/**\n * Returns `true` if all entries match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun <K, V> Map<out K, V>.all(predicate:
(Map.Entry<K, V>) -> Boolean): Boolean {\n if (isEmpty()) return true\n for (element in this) if
(!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if map has at least one entry.\n * \n *
@sample samples.collections.Collections.Aggregates.any\n */\npublic fun <K, V> Map<out K, V>.any(): Boolean
{\n return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <K, V> Map<out K,
V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n if (isEmpty()) return false\n for (element in
this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of entries in this map.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n return size\n}\n\n/**\n
* Returns the number of entries matching the given [predicate].\n */\npublic inline fun <K, V> Map<out K,
V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n if (isEmpty()) return 0\n var count = 0\n for
(element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Performs the given [action] on each
entry.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K, V>.forEach(action:
(Map.Entry<K, V>) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n@Deprecated("Use
maxByOrNull instead.", ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return maxByOrNull(selector)\n}\n\n/**\n
* Returns the first entry yielding the largest value of the given function or `null` if there are no entries.\n * \n *
@sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.maxByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return
entries.maxByOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the map is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws
NoSuchElementException if the map is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOf(selector: (Map.Entry<K, V>) -> R): R {\n return entries.maxOf(selector)\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there
are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/

```

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n return entries.maxOfOrNull(selector)\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.maxOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n return
entries.maxOfWith(comparator, selector)\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there
are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n return
entries.maxOfWithOrNull(comparator, selector)\n}\n\n@Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxWith(comparator:
Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n return maxWithOrNull(comparator)\n}\n\n/**\n *
Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no
entries.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n return
entries.maxWithOrNull(comparator)\n}\n\n@Deprecated("Use minByOrNull instead.")
ReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <K, V, R : Comparable<R>> Map<out K, V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>?
{\n return minByOrNull(selector)\n}\n\n/**\n * Returns the first entry yielding the smallest value of the given
function or `null` if there are no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.minByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return
entries.minByOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException

```

if the map is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:\n(Map.Entry<K, V>) -> Float): Float {\n return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value\n among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws\n NoSuchElementException if the map is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,\n V>.minOf(selector: (Map.Entry<K, V>) -> R): R {\n return entries.minOf(selector)\n}\n\n/**\n * Returns the\n smallest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if\n there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,\n V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n return\n entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]\n function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by\n [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,\n V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n return\n entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]\n function\n * applied to each entry in the map or `null` if there are no entries.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,\n V>.minOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n return entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,\n V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n return\n entries.minOfWith(comparator, selector)\n}\n\n/**\n * Returns the smallest value according to the provided\n [comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there\n are no entries.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,\n V>.minOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n return\n entries.minOfWithOrNull(comparator, selector)\n}\n\n@Deprecated("Use minWithOrNull instead.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun\n<K, V> Map<out K, V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n return\n minWithOrNull(comparator)\n}\n\n/**\n * Returns the first entry having the smallest value according to the\n provided [comparator] or `null` if there are no entries.\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,\n V>.minWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n return\n entries.minWithOrNull(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample\n samples.collections.Collections.Aggregates.none\n *\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n return\n isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample\n samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun <K, V> Map<out K,\n V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n if (isEmpty()) return true\n for (element in
```

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this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the given [action] on each entry and
returns the map itself afterwards.\n */\n@SinceKotlin("1.1")\npublic inline fun <K, V, M : Map<out K, V>>
M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n return apply { for (element in this) action(element)
}\n}\n\n/**\n * Performs the given [action] on each entry, providing sequential index with the entry,\n * and returns
the map itself afterwards.\n * @param [action] function that takes the index of an entry and the entry itself\n * and
performs the action on the entry.\n */\n@SinceKotlin("1.4")\npublic inline fun <K, V, M : Map<out K, V>>
M.onEachIndexed(action: (index: Int, Map.Entry<K, V>) -> Unit): M {\n return apply {
entries.forEachIndexed(action) }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original map returning
its entries when being iterated.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.asIterable(): Iterable<Map.Entry<K, V>> {\n return entries\n}\n\n/**\n * Creates a [Sequence] instance that
wraps the original map returning its entries when being iterated.\n */\npublic fun <K, V> Map<out K,
V>.asSequence(): Sequence<Map.Entry<K, V>> {\n return entries.asSequence()\n}\n\n"/\n\n * Copyright 2010-
2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage
kotlin.sequences\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns
`true` if [element] is found in the sequence.\n */\n * The operation is _terminal_.\n */\npublic operator fun
<@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {\n return indexOf(element)
>= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the
[index] is out of bounds of this sequence.\n */\n * The operation is _terminal_.\n */\n * @sample
samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Sequence<T>.elementAt(index: Int): T
{\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("Sequence doesn't contain element at
index $index.") }\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this sequence.\n */\n * The operation is _terminal_.\n */\n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T>
Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n if (index < 0)\n return
defaultValue(index)\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element
= iterator.next()\n if (index == count++)\n return element\n }\n return
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this sequence.\n */\n * The operation is _terminal_.\n */\n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T>
Sequence<T>.elementOrNull(index: Int): T? {\n if (index < 0)\n return null\n val iterator = iterator()\n
var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n
return element\n }\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null`
if no such element was found.\n */\n * The operation is _terminal_.\n */\n * @sample
samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Sequence<T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n */\n * The operation is
terminal.\n */\n * @sample samples.collections.Collections.Elements.find\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n */\n * @throws [NoSuchElementException] if the
sequence is empty.\n */\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.first(): T {\n val
iterator = iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException("Sequence is empty.")\n
return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n */\n * @throws
[NoSuchElementException] if no such element is found.\n */\n * The operation is _terminal_.\n */\npublic inline fun
<T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Sequence contains no element matching the predicate.")\n}\n\n/**\n

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* Returns the first element, or `null` if the sequence is empty.
 * The operation is _terminal_.
public fun <T> Sequence<T>.firstOrNull(): T? {
 val iterator = iterator()
 if (!iterator.hasNext())
 return null
 return iterator.next()
}

* Returns the first element matching the given [predicate], or `null` if element was
not found.
 * The operation is _terminal_.
public inline fun <T> Sequence<T>.firstOrNull(predicate: (T)
-> Boolean): T? {
 for (element in this) if (predicate(element)) return element
 return null
}

Returns first index of [element], or -1 if the sequence does not contain element.
 * The operation is
terminal.
public fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {
 var index = 0
 for (item in this) {
 checkIndexOverflow(index)
 if (element == item)
 return
 index
 index++
 }
 return -1
}

Returns index of the first element matching the given
[predicate], or -1 if the sequence does not contain such element.
 * The operation is _terminal_.
public inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
 var index = 0
 for (item in this) {
 checkIndexOverflow(index)
 if (predicate(item))
 return index
 index++
 }
 return -1
}

Returns index of the last element matching the given [predicate], or -1 if the sequence does not
contain such element.
 * The operation is _terminal_.
public inline fun <T>
Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {
 var lastIndex = -1
 var index = 0
 for (item in
this) {
 checkIndexOverflow(index)
 if (predicate(item))
 lastIndex = index
 index++
 }
 return lastIndex
}

Returns the last element.
 * The operation is _terminal_.
 * @throws
NoSuchElementException if the sequence is empty.
 * @sample
samples.collections.Collections.Elements.last
public fun <T> Sequence<T>.last(): T {
 val iterator =
iterator()
 if (!iterator.hasNext())
 throw NoSuchElementException("Sequence is empty.")
 var last =
iterator.next()
 while (iterator.hasNext())
 last = iterator.next()
 return last
}

Returns the last
element matching the given [predicate].
 * The operation is _terminal_.
 * @throws
NoSuchElementException if no such element is found.
 * @sample
samples.collections.Collections.Elements.last
public inline fun <T> Sequence<T>.last(predicate: (T) ->
Boolean): T {
 var last: T? = null
 var found = false
 for (element in this) {
 if (predicate(element))
 last = element
 found = true
 }
 if (!found) throw
NoSuchElementException("Sequence contains no element matching the predicate.")
 @Suppress("UNCHECKED_CAST")
 return last as T
}

Returns last index of [element], or -1 if the
sequence does not contain element.
 * The operation is _terminal_.
public fun
<@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {
 var lastIndex = -1
 var
index = 0
 for (item in this) {
 checkIndexOverflow(index)
 if (element == item)
 lastIndex =
index
 index++
 }
 return lastIndex
}

Returns the last element, or `null` if the sequence is
empty.
 * The operation is _terminal_.
 * @sample
samples.collections.Collections.Elements.last
public fun <T> Sequence<T>.lastOrNull(): T? {
 val iterator = iterator()
 if (!iterator.hasNext())
 return null
 var last = iterator.next()
 while (iterator.hasNext())
 last = iterator.next()
 return
last
}

Returns the last element matching the given [predicate], or `null` if no such element was found.
 * The operation is _terminal_.
 * @sample
samples.collections.Collections.Elements.last
public inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {
 var last: T? = null
 for (element in
this) {
 if (predicate(element)) {
 last = element
 }
 }
 return last
}

Returns the
single element, or throws an exception if the sequence is empty or has more than one element.
 * The operation
is _terminal_.
public fun <T> Sequence<T>.single(): T {
 val iterator = iterator()
 if
(!iterator.hasNext())
 throw NoSuchElementException("Sequence is empty.")
 val single =
iterator.next()
 if (iterator.hasNext())
 throw IllegalArgumentException("Sequence has more than one
element.")
 return single
}

Returns the single element matching the given [predicate], or throws
exception if there is no or more than one matching element.
 * The operation is _terminal_.
public inline
fun <T> Sequence<T>.single(predicate: (T) -> Boolean): T {
 var single: T? = null
 var found = false
 for
(element in this) {
 if (predicate(element)) {
 if (found) throw
IllegalArgumentException("Sequence
contains more than one matching element.")
 single = element
 found = true
 }
 }
 if

```



```

(!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")\n
@Suppress("UNCHECKED_CAST")\n return single as T\n}\n\n/**\n * Returns single element, or `null` if the\n sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T>\n Sequence<T>.singleOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n val\n single = iterator.next()\n if (iterator.hasNext())\n return null\n return single\n}\n\n/**\n * Returns the single\n element matching the given [predicate], or `null` if element was not found or more than one element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.singleOrNull(predicate: (T) ->\n Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element))\n {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return\n null\n return single\n}\n\n/**\n * Returns a sequence containing all elements except first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.drop(n: Int):\n Sequence<T> {\n require(n >= 0) { "Requested element count $n is less than zero." }\n return when {\n n\n == 0 -> this\n this is DropTakeSequence -> this.drop(n)\n else -> DropSequence(this, n)\n }\n}\n\n/**\n * Returns a sequence containing all elements except first elements that satisfy the given [predicate].\n *\n * The\n operation is _intermediate_ and _stateless_.\n *\n * @sample\n samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.dropWhile(predicate: (T)\n -> Boolean): Sequence<T> {\n return DropWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence\n containing only elements matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Collections.Filtering.filter\n */\npublic fun <T> Sequence<T>.filter(predicate:\n (T) -> Boolean): Sequence<T> {\n return FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence\n containing only elements matching the given [predicate].\n *\n * @param [predicate] function that takes the index of an\n element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\n * The\n operation is _intermediate_ and _stateless_.\n *\n * @sample\n samples.collections.Collections.Filtering.filterIndexed\n */\npublic fun <T> Sequence<T>.filterIndexed(predicate:\n (index: Int, T) -> Boolean): Sequence<T> {\n // TODO: Rewrite with generalized MapFilterIndexingSequence\n return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), { it.value })\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *\n * @param\n [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate\n evaluation on the element.\n *\n * The operation is _terminal_.\n *\n * @sample\n samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>>\n Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed {\n index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return\n destination\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter\n R.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample\n samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R>\n Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {\n\n @Suppress("UNCHECKED_CAST")\n return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends all\n elements that are instances of specified type parameter R to the given [destination].\n *\n * The operation is\n _terminal_.\n *\n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n */\npublic inline fun\n <reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n for (element in\n this) if (element is R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing\n all elements not matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Collections.Filtering.filter\n */\npublic fun <T> Sequence<T>.filterNot(predicate: (T)\n -> Boolean): Sequence<T> {\n return FilteringSequence(this, false, predicate)\n}\n\n/**\n * Returns a sequence\n containing all elements that are not `null`. \n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample\n samples.collections.Collections.Filtering.filterNotNull\n */\npublic fun <T : Any> Sequence<T?>.filterNotNull():\n Sequence<T> {\n @Suppress("UNCHECKED_CAST")\n return filterNot { it == null } as

```



```

Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n return associateTo(LinkedHashMap<K,
V>(), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given sequence indexed by the
key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the
same\n key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K>
Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n return associateByTo(LinkedHashMap<K,
T>(), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed
by [keySelector] functions applied to elements of the given sequence.\n * \n * If any two elements would have the
same\n key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>
Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n return
associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to
each element of the given sequence\n * and value is the element itself.\n * \n * If any two elements would have the
same\n key returned by [keySelector] the last one gets added to the map.\n * \n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M :
MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for
(element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the
given sequence.\n * \n * If any two elements would have the same\n key returned by [keySelector] the last one gets
added to the map.\n * \n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K,
V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each element of the given sequence.\n * \n
* If any of two pairs would have the same\n key the last one gets added to the map.\n * \n * The operation is
terminal.\n *\n * @sample samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun
<T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>):
M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n *
Returns a [Map] where keys are elements from the given sequence and values are\n * produced by the
[valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to
the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The
operation is _terminal_.\n *\n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.3")\npublic inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V):
Map<K, V> {\n val result = LinkedHashMap<K, V>()\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given sequence,\n * where key is the element itself and value is provided by the [valueSelector]
function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the
map.\n * \n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin("1.3")\npublic inline fun
<K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M
{\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n * \n * The operation is
terminal.\n */\npublic fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {\n

```

```

for (item in this) {
 destination.add(item)
}
return destination
}

/**
 * Returns a new [HashSet] of
all elements.
 */
public fun <T> Sequence<T>.toHashSet(): HashSet<T> {
 return toCollection(HashSet<T>())
}

/**
 * Returns a [List] containing all elements.
 */
public fun <T> Sequence<T>.toList(): List<T> {
 return
this.toMutableList().optimizeReadOnlyList()
}

/**
 * Returns a new [MutableList] filled with all elements of
this sequence.
 */
public fun <T> Sequence<T>.toMutableList():
MutableList<T> {
 return toCollection(ArrayList<T>())
}

/**
 * Returns a [Set] of all elements.
 */
The returned set preserves the element iteration order of the original sequence.
 */
public fun <T> Sequence<T>.toSet(): Set<T> {
 return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()
}

/**
 * Returns a single sequence of all elements
from results of [transform] function being invoked on each element of original sequence.
 */
The operation is
intermediate and _stateless_.
 */
@sample samples.collections.Collections.Transformations.flatMap
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIterable")
public fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Iterable<R>): Sequence<R> {
 return FlatteningSequence(this,
transform, Iterable<R>::iterator)
}

/**
 * Returns a single sequence of all elements from results of [transform]
function being invoked on each element of original sequence.
 */
The operation is
intermediate and
stateless.
 */
@sample samples.collections.Collections.Transformations.flatMap
 */
public fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {
 return FlatteningSequence(this,
transform, Sequence<R>::iterator)
}

/**
 * Returns a single sequence of all elements yielded from results of
[transform] function being invoked on each element
 */
and its index in the original sequence.
 */
The operation
is
intermediate and _stateless_.
 */
@sample
samples.collections.Collections.Transformations.flatMapIndexed
 */
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterable")
public fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): Sequence<R> {
 return
flatMapIndexed(this, transform, Iterable<R>::iterator)
}

/**
 * Returns a single sequence of all elements
yielded from results of [transform] function being invoked on each element
 */
and its index in the original
sequence.
 */
The operation is
intermediate and _stateless_.
 */
@sample
samples.collections.Collections.Transformations.flatMapIndexed
 */
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedSequence")
public fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): Sequence<R> {
 return
flatMapIndexed(this, transform, Sequence<R>::iterator)
}

/**
 * Appends all elements yielded from results of
[transform] function being invoked on each element
 */
and its index in the original sequence, to the given
[destination].
 */
The operation is
terminal.
 */
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public
inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Iterable<R>): C {
 var index = 0
 for (element in this) {
 val list =
transform(checkIndexOverflow(index++), element)
 destination.addAll(list)
 }
 return
destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each
element
 */
and its index in the original sequence, to the given [destination].
 */
The operation is
terminal.
 */
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")
@kotlin.internal.InlineOnly
public
inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {
 var index = 0
 for (element in this) {
 val list =
transform(checkIndexOverflow(index++), element)
 destination.addAll(list)
 }
 return
}

```

```

destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIterableTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n
for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }
}\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n *\npublic inline fun
<T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C
{\n
for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }
}\n return
destination\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.groupBy\n *\npublic inline fun <T, K>
Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return groupByTo(LinkedHashMap<K,
MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to
each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the
element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The
returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The
operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n *\npublic inline fun <T, K, V>
Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and
puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.groupBy\n *\npublic inline fun <T, K, M : MutableMap<in K,
MutableList<T>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this)
{\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n
list.add(element)\n }
}\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied
to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n
*\n * @return The [destination] map.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n *\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }
}\n return
destination\n}\n\n/**\n * Creates a [Grouping] source from a sequence to be used later with one of group-and-fold
operations\n * using the specified [keySelector] function to extract a key from each element.\n *\n * The operation is
intermediate and _stateless_.\n *\n * @sample samples.collections.Grouping.groupingByEachCount\n
*\n@SinceKotlin("1.1")\npublic inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K):
Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> =
this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }
}\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element in the
original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.map\n *\npublic fun <T, R> Sequence<T>.map(transform: (T) ->
R): Sequence<R> {\n return TransformingSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing

```

the results of applying the given [transform] function to each element and its index in the original sequence.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

\* The operation is `_intermediate_` and `_stateless_`.

`public fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {`  
`return`  
`TransformingIndexedSequence(this, transform)}`

\* Returns a sequence containing only the non-null results of applying the given [transform] function to each element and its index in the original sequence.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

\* The operation is `_intermediate_` and `_stateless_`.

`public fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {`  
`return`  
`TransformingIndexedSequence(this, transform).filterNotNull()}`

\* Applies the given [transform] function to each element and its index in the original sequence and appends only the non-null results to the given [destination].

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

\* The operation is `_terminal_`.

`public inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {`  
`forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }`  
`return destination}`

\* Applies the given [transform] function to each element and its index in the original sequence and appends the results to the given [destination].

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

\* The operation is `_terminal_`.

`public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {`  
`var index = 0`  
`for (item in this)`  
`destination.add(transform(checkIndexOverflow(index++), item))`  
`return destination}`

\* Returns a sequence containing only the non-null results of applying the given [transform] function to each element in the original sequence.

\* The operation is `_intermediate_` and `_stateless_`.

@sample  
`samples.collections.Collections.Transformations.mapNotNull`

`public fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {`  
`return TransformingSequence(this, transform).filterNotNull()}`

\* Applies the given [transform] function to each element in the original sequence and appends only the non-null results to the given [destination].

\* The operation is `_terminal_`.

`public inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {`  
`forEach { element -> transform(element)?.let { destination.add(it) } }`  
`return destination}`

\* Applies the given [transform] function to each element of the original sequence and appends the results to the given [destination].

\* The operation is `_terminal_`.

`public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {`  
`for (item in this)`  
`destination.add(transform(item))`  
`return destination}`

\* Returns a sequence that wraps each element of the original sequence into an [IndexedValue] containing the index of that element and the element itself.

\* The operation is `_intermediate_` and `_stateless_`.

`public fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {`  
`return IndexingSequence(this)}`

\* Returns a sequence containing only distinct elements from the given sequence.

\* Among equal elements of the given sequence, only the first one will be present in the resulting sequence.

\* The elements in the resulting sequence are in the same order as they were in the source sequence.

\* The operation is `_intermediate_` and `_stateful_`.

@sample  
`samples.collections.Collections.Transformations.distinctAndDistinctBy`

`public fun <T> Sequence<T>.distinct(): Sequence<T> {`  
`return this.distinctBy { it }`

\* Returns a sequence containing only elements from the given sequence having distinct keys returned by the given [selector] function.

\* Among elements of the given sequence with equal keys, only the first one will be present in the resulting sequence.

\* The elements in the resulting sequence are in the same order as they were in the source sequence.

\* The operation is `_intermediate_` and `_stateful_`.

@sample  
`samples.collections.Collections.Transformations.distinctAndDistinctBy`

`public fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {`  
`return DistinctSequence(this, selector)}`

\* Returns a new [MutableSet] containing all distinct elements from the given sequence.

\* The returned set

preserves the element iteration order of the original sequence.

```

 * The operation is _terminal_
 * public fun
 <T> Sequence<T>.toMutableSet(): MutableSet<T> {
 \n val set = LinkedHashSet<T>()
 \n for (item in this)
 set.add(item)
 \n return set
 \n}
 * Returns `true` if all elements match the given [predicate].
 * The operation is _terminal_
 * @sample samples.collections.Collections.Aggregates.all
 * public inline fun
 <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {
 \n for (element in this) if (!predicate(element)) return
 false
 \n return true
 \n}
 * Returns `true` if sequence has at least one element.
 * The operation is
 terminal
 * @sample samples.collections.Collections.Aggregates.any
 * public fun <T>
 Sequence<T>.any(): Boolean {
 \n return iterator().hasNext()
 \n}
 * Returns `true` if at least one element
 matches the given [predicate].
 * The operation is _terminal_
 * @sample
 samples.collections.Collections.Aggregates.anyWithPredicate
 * public inline fun <T>
 Sequence<T>.any(predicate: (T) -> Boolean): Boolean {
 \n for (element in this) if (predicate(element)) return
 true
 \n return false
 \n}
 * Returns the number of elements in this sequence.
 * The operation is
 terminal
 * public fun <T> Sequence<T>.count(): Int {
 \n var count = 0
 \n for (element in this)
 checkCountOverflow(++count)
 \n return count
 \n}
 * Returns the number of elements matching the given
 [predicate].
 * The operation is _terminal_
 * public inline fun <T> Sequence<T>.count(predicate: (T) ->
 Boolean): Int {
 \n var count = 0
 \n for (element in this) if (predicate(element))
 checkCountOverflow(++count)
 \n return count
 \n}
 * Accumulates value starting with [initial] value and applying [operation] from left to
 right
 * to current accumulator value and each element.
 * Returns the specified [initial] value if the sequence
 is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates
 the next accumulator value.
 * The operation is _terminal_
 * public inline fun <T, R>
 Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
 \n var accumulator = initial
 \n for (element in this)
 accumulator = operation(accumulator, element)
 \n return accumulator
 \n}
 * Accumulates value starting
 with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element
 with its index in the original sequence.
 * Returns the specified [initial] value if the sequence is empty.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element
 itself, and calculates the next accumulator value.
 * The operation is _terminal_
 * public inline fun <T, R>
 Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
 \n var index = 0
 \n var
 accumulator = initial
 \n for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator,
 element)
 \n return accumulator
 \n}
 * Performs the given [action] on each element.
 * The operation is
 terminal
 * public inline fun <T> Sequence<T>.forEach(action: (T) -> Unit): Unit {
 \n for (element in this)
 action(element)
 \n}
 * Performs the given [action] on each element, providing sequential index with the
 element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the
 action on the element.
 * The operation is _terminal_
 * public inline fun <T>
 Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
 \n var index = 0
 \n for (item in this)
 action(checkIndexOverflow(index++), item)
 \n}
 * @Deprecated("Use maxOrNull instead.")
 * ReplaceWith("this.maxOrNull()")
 * @DeprecatedSinceKotlin(warningSince =
 "1.4")
 * @SinceKotlin("1.1")
 * public fun Sequence<Double>.max(): Double? {
 \n return
 maxOrNull()
 \n}
 * @Deprecated("Use maxOrNull instead.")
 * ReplaceWith("this.maxOrNull()")
 * @DeprecatedSinceKotlin(warningSince =
 "1.4")
 * @SinceKotlin("1.1")
 * public fun Sequence<Float>.max(): Float? {
 \n return
 maxOrNull()
 \n}
 * @Deprecated("Use maxOrNull instead.")
 * ReplaceWith("this.maxOrNull()")
 * @DeprecatedSinceKotlin(warningSince = "1.4")
 * public fun <T :
 Comparable<T>> Sequence<T>.max(): T? {
 \n return maxOrNull()
 \n}
 * @Deprecated("Use maxByOrNull
 instead.")
 * ReplaceWith("this.maxByOrNull(selector)")
 * @DeprecatedSinceKotlin(warningSince =
 "1.4")
 * public inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T? {
 \n return
 maxByOrNull(selector)
 \n}
 * Returns the first element yielding the largest value of the given function or
 `null` if there are no elements.
 * The operation is _terminal_
 * @sample
 samples.collections.Collections.Aggregates.maxByOrNull
 * @SinceKotlin("1.4")
 * public inline fun <T, R :

```

```
Comparable<R>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var\n max\n Value = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue <\n v)\n {\n maxElem = e\n max\n Value = v\n }\n } while (iterator.hasNext())\n return\n maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to\n each element in the sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result\n is `NaN`.\n * \n * @throws NoSuchElementException if the sequence is empty.\n * \n * The operation is\n _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) ->\n Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var\n max\n Value = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n max\n Value = maxOf(maxValue, v)\n }\n return\n max\n Value\n}\n\n/**\n * Returns the largest value among all\n values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values\n produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException\n if the sequence is empty.\n * \n * The operation is\n _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) ->\n Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var\n max\n Value = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n max\n Value = maxOf(maxValue, v)\n }\n return\n max\n Value\n}\n\n/**\n * Returns the largest value among all\n values produced by [selector] function\n * applied to each element in the sequence.\n * \n * @throws\n NoSuchElementException if the sequence is empty.\n * \n * The operation is\n _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\n Sequence<T>.maxOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw\n NoSuchElementException()\n var\n max\n Value = selector(iterator.next())\n while (iterator.hasNext()) {\n val v\n = selector(iterator.next())\n if (maxValue < v)\n {\n max\n Value = v\n }\n }\n return\n max\n Value\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to\n each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector]\n function is `NaN`, the returned result is `NaN`.\n * \n * The operation is\n _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfOrNull(selector:\n (T) -> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var\n max\n Value =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n max\n Value =\n maxOf(maxValue, v)\n }\n return\n max\n Value\n}\n\n/**\n * Returns the largest value among all values produced\n by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of\n values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation is\n _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfOrNull(selector:\n (T) -> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var\n max\n Value =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n max\n Value =\n maxOf(maxValue, v)\n }\n return\n max\n Value\n}\n\n/**\n * Returns the largest value among all values produced\n by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * The\n operation is\n _terminal_.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\n Sequence<T>.maxOfOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return\n
```



```

null\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =
selector(iterator.next())\n if (maxValue < v) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the sequence.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n * \n * The operation is _terminal_.\n
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n val iterator = iterator()\n if
(iterator.hasNext()) throw NoSuchElementException()\n var maxValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(maxValue, v) < 0) {\n
 maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the sequence or `null`
if there are no elements.\n * \n * The operation is _terminal_.\n
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator =
iterator()\n if (!iterator.hasNext()) return null\n var maxValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(maxValue, v) < 0) {\n
 maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no
elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
\n\n@SinceKotlin("1.4")\npublic fun Sequence<Double>.maxOrNull(): Double? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
\n\n@SinceKotlin("1.4")\npublic fun Sequence<Float>.maxOrNull(): Float? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n * \n * The operation is _terminal_.\n
\n\n@SinceKotlin("1.4")\npublic fun <T :
Comparable<T>> Sequence<T>.maxOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (max < e) max
= e\n }\n return max\n}\n\n@Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic
fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {\n return
maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n * \n * The operation is _terminal_.\n
\n\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n
 val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while
(iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(max, e) < 0) max = e\n }\n
 return max\n}\n\n@Deprecated("Use minOrNull instead.")
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.1")\npublic fun Sequence<Double>.min(): Double? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.")
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.1")\npublic fun Sequence<Float>.min(): Float? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.")
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun <T :
Comparable<T>> Sequence<T>.min(): T? {\n return minOrNull()\n}\n\n@Deprecated("Use minByOrNull
instead.")
ReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince =

```

```

\`1.4\`)
public inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? {
 return minByOrNull(selector)
}
/**
 * Returns the first element yielding the smallest value of the given function or
 * `null` if there are no elements.
 *
 * The operation is _terminal_.
 *
 * @sample
 * samples.collections.Collections.Aggregates.minByOrNull
 */
@SinceKotlin("1.4")
public inline fun <T, R : Comparable<R>> Sequence<T>.minByOrNull(selector: (T) -> R): T? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var minElem = iterator.next()
 if (!iterator.hasNext()) return minElem
 var minValue = selector(minElem)
 do {
 val e = iterator.next()
 val v = selector(e)
 if (minValue > v) {
 minElem = e
 minValue = v
 }
 } while (iterator.hasNext())
 return minElem
}
/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the sequence.
 *
 * If any of values produced by [selector] function is `NaN`, the returned result
 * is `NaN`.
 *
 * @throws NoSuchElementException if the sequence is empty.
 *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOf(selector: (T) -> Double): Double {
 val iterator = iterator()
 if (!iterator.hasNext()) throw NoSuchElementException()
 var minValue = selector(iterator.next())
 while (iterator.hasNext()) {
 val v = selector(iterator.next())
 minValue = minOf(minValue, v)
 }
 return minValue
}
/**
 * Returns the smallest value among all
 * values produced by [selector] function
 * applied to each element in the sequence.
 *
 * If any of values
 * produced by [selector] function is `NaN`, the returned result is `NaN`.
 *
 * @throws NoSuchElementException
 * if the sequence is empty.
 *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOf(selector: (T) -> Float): Float {
 val iterator = iterator()
 if (!iterator.hasNext()) throw NoSuchElementException()
 var minValue = selector(iterator.next())
 while (iterator.hasNext()) {
 val v = selector(iterator.next())
 minValue = minOf(minValue, v)
 }
 return minValue
}
/**
 * Returns the smallest value among all
 * values produced by [selector] function
 * applied to each element in the sequence.
 *
 * @throws
 * NoSuchElementException if the sequence is empty.
 *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Sequence<T>.minOf(selector: (T) -> R): R {
 val iterator = iterator()
 if (!iterator.hasNext()) throw NoSuchElementException()
 var minValue = selector(iterator.next())
 while (iterator.hasNext()) {
 val v = selector(iterator.next())
 if (minValue > v) {
 minValue = v
 }
 }
 return minValue
}
/**
 * Returns the smallest value among all values produced by [selector] function
 * applied to each element in the sequence or `null` if there are no elements.
 *
 * If any of values produced by [selector] function is `NaN`, the returned result
 * is `NaN`.
 *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOrNull(selector: (T) -> Double): Double? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var minValue = selector(iterator.next())
 while (iterator.hasNext()) {
 val v = selector(iterator.next())
 minValue = minOf(minValue, v)
 }
 return minValue
}
/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the sequence or `null`
 * if there are no elements.
 *
 * If any of
 * values produced by [selector] function is `NaN`, the returned result is `NaN`.
 *
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOrNull(selector: (T) -> Float): Float? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var minValue = selector(iterator.next())
 while (iterator.hasNext()) {
 val v = selector(iterator.next())
 minValue = minOf(minValue, v)
 }
 return minValue
}
/**
 * Returns the smallest value among all values produced
 * by [selector] function
 * applied to each element in the sequence or `null`
 * if there are no elements.
 *
 * The
 */

```

```

operation is _terminal_
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.minOfOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =
selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the sequence.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n * \n * The operation is _terminal_
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n val iterator = iterator()\n if
(!iterator.hasNext()) throw NoSuchElementException()\n var minValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence
or `null` if there are no elements.\n * \n * The operation is _terminal_
\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator =
iterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are
no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_
\n\n@SinceKotlin("1.4")\npublic fun Sequence<Double>.minOrNull(): Double? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_
\n\n@SinceKotlin("1.4")\npublic fun Sequence<Float>.minOrNull(): Float? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n * \n * The operation is _terminal_
\n\n@SinceKotlin("1.4")\npublic fun <T :
Comparable<T>> Sequence<T>.minOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min
= e\n }\n return min\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
<T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n return
minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the
provided [comparator] or `null` if there are no elements.\n * \n * The operation is _terminal_
\n\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n
val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while
(iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return
min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n * \n * The operation is _terminal_
*\n * \n * @sample samples.collections.Collections.Aggregates.none\n *\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.none(): Boolean {\n
return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * The
operation is _terminal_
*\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.4")\npublic inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if
(predicate(element)) return false\n return true\n}\n\n/**\n * Returns a sequence which performs the given [action]

```

on each element of the original sequence as they pass through it.

The operation is `_intermediate_` and `_stateless_`.

```

@SinceKotlin("1.1")
public fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T>
{
 return map {
 action(it)
 it
 }
}

```

Returns a sequence which performs the given [action] on each element of the original sequence as they pass through it.

@param [action] function that takes the index of an element and the element itself and performs the action on the element.

The operation is `_intermediate_` and `_stateless_`.

```

@SinceKotlin("1.4")
public fun <T> Sequence<T>.onEachIndexed(action:
(index: Int, T) -> Unit): Sequence<T>
{
 return mapIndexed {
 index, element ->
 action(index, element)
 element
 }
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

Throws an exception if this sequence is empty. If the sequence can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes current accumulator value and an element and calculates the next accumulator value.

The operation is `_terminal_`.

@sample

```

samples.collections.Collections.Aggregates.reduce

```

```

public inline fun <S, T : S>
Sequence<T>.reduce(operation: (acc: S, T) -> S): S
{
 val iterator = this.iterator()
 if (!iterator.hasNext())
 throw UnsupportedOperationException("Empty sequence can't be reduced.")
 var accumulator: S =
 iterator.next()
 while (iterator.hasNext())
 accumulator = operation(accumulator, iterator.next())
 return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original sequence.

Throws an exception if this sequence is empty. If the sequence can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.

The operation is `_terminal_`.

@sample

```

samples.collections.Collections.Aggregates.reduce

```

```

public inline fun <S, T : S>
Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S
{
 val iterator = this.iterator()
 if (!iterator.hasNext())
 throw UnsupportedOperationException("Empty sequence can't be reduced.")
 var index = 1
 var accumulator: S = iterator.next()
 while (iterator.hasNext())
 accumulator =
 operation(checkIndexOverflow(index++), accumulator, iterator.next())
 return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original sequence.

Returns `null` if the sequence is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.

The operation is `_terminal_`.

@sample

```

samples.collections.Collections.Aggregates.reduceOrNull

```

```

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <S, T : S>
Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S?
{
 val iterator = this.iterator()
 if (!iterator.hasNext())
 return null
 var accumulator: S = iterator.next()
 while (iterator.hasNext())
 accumulator = operation(accumulator, iterator.next())
 return accumulator
}

```

Returns a sequence containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.

The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function

```

later because of sequence's lazy nature.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and
stateless.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\npublic fun <T, R> Sequence<T>.runningFold(initial: R, operation: (acc: R, T) -> R):
Sequence<R> {\n return sequence {\n yield(initial)\n var accumulator = initial\n for (element in
this@runningFold) {\n accumulator = operation(accumulator, element)\n yield(accumulator)\n }\n }\n}\n\n*\n * Returns a sequence containing successive accumulation values generated by applying [operation]
from left to right\n * to each element, its index in the original sequence and current accumulator value that starts
with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable
(or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n
*\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n
*\n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\npublic fun
<T, R> Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n
return sequence {\n yield(initial)\n var index = 0\n var accumulator = initial\n for (element in
this@runningFoldIndexed) {\n accumulator = operation(checkIndexOverflow(index++), accumulator,
element)\n yield(accumulator)\n }\n}\n}\n\n*\n * Returns a sequence containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with the first element of this sequence.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n
*\n * @param [operation] function that takes current accumulator value and the element, and calculates the next
accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <S, T : S>
Sequence<T>.runningReduce(operation: (acc: S, T) -> S): Sequence<S> {\n return sequence {\n val iterator =
iterator()\n if (iterator.hasNext()) {\n var accumulator: S = iterator.next()\n yield(accumulator)\n
 while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n
yield(accumulator)\n }\n }\n }\n}\n\n*\n * Returns a sequence containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and
current accumulator value that starts with the first element of this sequence.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n
*\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n
*\n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\npublic fun
<S, T : S> Sequence<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {\n return
sequence {\n val iterator = iterator()\n if (iterator.hasNext()) {\n var accumulator: S =
iterator.next()\n yield(accumulator)\n var index = 1\n while (iterator.hasNext()) {\n
accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n
yield(accumulator)\n }\n }\n }\n}\n\n*\n * Returns a sequence containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable
(or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n
*\n * @param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T, R>

```

Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n return runningFold(initial, operation)\n}\n\n/\*\*\n \* Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original sequence and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting sequence.\n \* The [initial] value should also be immutable (or should not be mutated)\n \* as it may be passed to [operation] function later because of sequence's lazy nature.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n \*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T, R> Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <S, T : S> Sequence<T>.scanReduce(operation: (acc: S, T) -> S): Sequence<S> {\n return runningReduce(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <S, T : S> Sequence<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {\n return runningReduceIndexed(operation)\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \* \n \* The operation is \_terminal\_.\n \*/\n\npublic inline fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \* \n \* The operation is \_terminal\_.\n \*/\n\npublic inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \* \n \* The operation is \_terminal\_.\n \*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \* \n \* The operation is \_terminal\_.\n \*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \* \n \* The operation is \_terminal\_.\n \*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \* \n \* The operation is \_terminal\_.\n \*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n \* \n \* The operation is \_terminal\_.\n \*/\n

```

*

@SinceKotlin("1.4")

@OptIn(kotlin.experimental.ExperimentalTypeInference::class)

@OverloadResolutionByLambdaReturnType

@kotlin.jvm.JvmName("sumOfULong")

@ExperimentalUnsignedTypes

@kotlin.internal.InlineOnly

public inline fun <T> Sequence<T>.sumOf(selector: (T) -> ULong): ULong {

 var sum: ULong = 0.toULong()

 for (element in this) {

 sum += selector(element)

 }

 return sum

}

```

Returns an original collection containing all the non-`null` elements, throwing an `IllegalArgumentException` if there are any `null` elements.

The operation is `_intermediate_` and `_stateless_`.

```

public fun <T : Any> Sequence<T?>.requireNotNulls(): Sequence<T> {

 return map { it ?: throw IllegalArgumentException("null element found in $this.") }

}

```

Splits this sequence into a sequence of lists each not exceeding the given `[size]`.

The last list in the resulting sequence may have fewer elements than the given `[size]`.

The number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.

The operation is `_intermediate_` and `_stateful_`.

@sample `samples.collections.Collections.Transformations.chunked`

```

@SinceKotlin("1.2")

public fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {

 return windowed(size, size, partialWindows = true)

}

```

Splits this sequence into several lists each not exceeding the given `[size]` and applies the given `[transform]` function to an each.

@return sequence of results of the `[transform]` applied to an each list.

Note that the list passed to the `[transform]` function is ephemeral and is valid only inside that function.

You should not store it or allow it to escape in some way, unless you made a snapshot of it.

The last list may have fewer elements than the given `[size]`.

The number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.

The operation is `_intermediate_` and `_stateful_`.

@sample `samples.text.Strings.chunkedTransform`

```

@SinceKotlin("1.2")

public fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {

 return windowed(size, size, partialWindows = true, transform = transform)

}

```

Returns a sequence containing all elements of the original sequence without the first occurrence of the given `[element]`.

The operation is `_intermediate_` and `_stateless_`.

```

public operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {

 return object: Sequence<T> {

 override fun iterator(): Iterator<T> {

 var removed = false

 return this@minus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()

 }

 }

}

```

Returns a sequence containing all elements of original sequence except the elements contained in the given `[elements]` array.

Note that the source sequence and the array being subtracted are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

The `[elements]` array may be converted to a `[HashSet]` to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

The operation is `_intermediate_` and `_stateful_`.

```

public operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {

 if (elements.isEmpty()) return this

 return object: Sequence<T> {

 override fun iterator(): Iterator<T> {

 val other = elements.toHashSet()

 return this@minus.filterNot { it in other }.iterator()

 }

 }

}

```

Returns a sequence containing all elements of original sequence except the elements contained in the given `[elements]` collection.

Note that the source sequence and the collection being subtracted are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

The `[elements]` collection may be converted to a `[HashSet]` to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

The operation is `_intermediate_` and `_stateful_`.

```

public operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {

 return object: Sequence<T> {

 override fun iterator(): Iterator<T> {

 val other = elements.convertToSetForSetOperation()

 if (other.isEmpty()) return this@minus.iterator()

 else return this@minus.filterNot { it in other }.iterator()

 }

 }

}

```

Returns a sequence containing all elements of original sequence except the elements contained in the given `[elements]` sequence.

Note that the source sequence and the sequence being subtracted are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

The operation is

`_intermediate_` for this sequence and `_terminal_` and `_stateful_` for the [elements] sequence.

The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

```

public operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {
 return object: Sequence<T> {
 override fun iterator(): Iterator<T> {
 val other = elements.toHashSet()
 if (other.isEmpty()) return this@minus.iterator()
 else return this@minus.filterNot { it in other }.iterator()
 }
 }
}

```

Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].

The operation is `_intermediate_` and `_stateless_`.

```

@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {
 return minus(element)
}

```

Splits the original sequence into pair of lists, where `*first*` list contains elements for which [predicate] yielded `true`, while `*second*` list contains elements for which [predicate] yielded `false`.

The operation is `_terminal_`.

```

@sample
samples.collections.Sequences.Transformations.partition

```

```

public inline fun <T> Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
 val first = ArrayList<T>()
 val second = ArrayList<T>()
 for (element in this) {
 if (predicate(element)) first.add(element)
 } else {
 second.add(element)
 }
 return Pair(first, second)
}

```

Returns a sequence containing all elements of the original sequence and then the given [element].

The operation is `_intermediate_` and `_stateless_`.

```

public operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {
 return sequenceOf(this, sequenceOf(element)).flatten()
}

```

Returns a sequence containing all elements of original sequence and then all elements of the given [elements] array.

Note that the source sequence and the array being added are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

The operation is `_intermediate_` and `_stateless_`.

```

public operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {
 return this.plus(elements.asList())
}

```

Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection.

Note that the source sequence and the collection being added are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

The operation is `_intermediate_` and `_stateless_`.

```

public operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {
 return sequenceOf(this, elements.asSequence()).flatten()
}

```

Returns a sequence containing all elements of original sequence and then all elements of the given [elements] sequence.

Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

The operation is `_intermediate_` and `_stateless_`.

```

public operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {
 return sequenceOf(this, elements).flatten()
}

```

Returns a sequence containing all elements of the original sequence and then the given [element].

The operation is `_intermediate_` and `_stateless_`.

```

@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {
 return plus(element)
}

```

Returns a sequence of snapshots of the window of the given [size] sliding along this sequence with the given [step], where each snapshot is a list.

Several last lists may have fewer elements than the given [size].

Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.

`@param size` the number of elements to take in each window

`@param step` the number of elements to move the window forward by on each step, by default 1

`@param partialWindows` controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

```

@sample
samples.collections.Sequences.Transformations.takeWindows

```

```

@SinceKotlin("1.2")
public fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {
 return windowedSequence(size, step, partialWindows, reuseBuffer = false)
}

```

Returns a sequence of results of applying the given [transform] function to an each list representing a view over the window of the given [size] sliding along this sequence with the given [step].

Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.

You



should not store it or allow it to escape in some way, unless you made a snapshot of it.\n \* Several last lists may have fewer elements than the given [size].\n \* \n \* Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.\n \* @param size the number of elements to take in each window\n \* @param step the number of elements to move the window forward by on an each step, by default 1\n \* @param partialWindows controls whether or not to keep partial windows in the end if any,\n \* by default `false` which means partial windows won't be preserved\n \* \n \* @sample

```
samples.collections.Sequences.Transformations.averageWindows\n *^\n@SinceKotlin("1.2")\npublic fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R> {\n return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
```

```
samples.collections.Sequences.Transformations.zip\n *^\npublic infix fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {\n return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
```

```
samples.collections.Sequences.Transformations.zipWithTransform\n *^\npublic fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n return MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in this sequence.\n *\n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
```

```
samples.collections.Collections.Transformations.zipWithNext\n *^\n@SinceKotlin("1.2")\npublic fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this sequence.\n *\n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
```

```
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n *^\n@SinceKotlin("1.2")\npublic fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n return sequence result@\n {\n val iterator = iterator()\n if (!iterator.hasNext()) return@result\n var current = iterator.next()\n while (iterator.hasNext()) {\n val next = iterator.next()\n yield(transform(current, next))\n current = next\n }\n }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n *\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n *\n * The operation is _terminal_.\n *\n * @sample
```

```
samples.collections.Collections.Transformations.joinTo\n *^\npublic fun <T, A : Appendable> Sequence<T>.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((T) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)\n buffer.append(separator)\n if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n *\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n *\n * The operation is _terminal_.\n *\n * @sample
```

```
samples.collections.Collections.Transformations.joinToString\n *^\npublic fun <T> Sequence<T>.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((T) -> CharSequence)? = null): String {\n return
```

```

joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n\n/**\n * Creates an
[Iterable] instance that wraps the original sequence returning its elements when being iterated.\n */\npublic fun <T>
Sequence<T>.asIterable(): Iterable<T> {\n return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as
a [Sequence].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T>
{\n return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n */\n * The operation is
terminal\n */\n@kotlin.jvm.JvmName("averageOfByte")\npublic fun Sequence<Byte>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n */\n * The operation is _terminal_\n */\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Sequence<Short>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n */\n * The operation is _terminal_\n */\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun Sequence<Int>.average(): Double {\n var sum: Double
= 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the
sequence.\n */\n * The operation is _terminal_\n */\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun
Sequence<Long>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
 sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n */\n * The operation is _terminal_\n
*/\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun Sequence<Float>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n */\n * The operation is _terminal_\n */\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun Sequence<Double>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the sequence.\n */\n * The operation is _terminal_\n */\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Sequence<Byte>.sum(): Int {\n var sum: Int = 0\n for
(element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the
sequence.\n */\n * The operation is _terminal_\n */\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun
Sequence<Short>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return
sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n */\n * The operation is _terminal_\n
*/\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Sequence<Int>.sum(): Int {\n var sum: Int = 0\n for
(element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the
sequence.\n */\n * The operation is _terminal_\n */\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun
Sequence<Long>.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return
sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n */\n * The operation is _terminal_\n
*/\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Sequence<Float>.sum(): Float {\n var sum: Float = 0.0f\n for
(element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in
the sequence.\n */\n * The operation is _terminal_\n */\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun
Sequence<Double>.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return
sum\n}\n\n"/\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SetsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport

```

```

kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a set containing all elements of the original
set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n
*\npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n val result =
LinkedHashSet<T>(mapCapacity(size))\n var removed = false\n return this.filterTo(result) { if (!removed && it
== element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original
set except the elements contained in the given [elements] array.\n * \n * The returned set preserves the element
iteration order of the original set.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the
operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that
doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Array<out
T>): Set<T> {\n val result = LinkedHashSet<T>(this)\n result.removeAll(elements)\n return result\n}\n\n/**\n
* Returns a set containing all elements of the original set except the elements contained in the given [elements]
collection.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements]
collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a
correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic
operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {\n val other =
elements.convertToSetForSetOperationWith(this)\n if (other.isEmpty())\n return this.toSet()\n if (other is
Set)\n return this.filterNotTo(LinkedHashSet<T>()) { it in other }\n val result = LinkedHashSet<T>(this)\n
result.removeAll(other)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set
except the elements contained in the given [elements] sequence.\n * \n * The returned set preserves the element
iteration order of the original set.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the
operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that
doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements:
Sequence<T>): Set<T> {\n val result = LinkedHashSet<T>(this)\n result.removeAll(elements)\n return
result\n}\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The
returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Set<T>.minusElement(element: T): Set<T> {\n return minus(element)\n}\n\n/**\n * Returns a set
containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The
returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T>
Set<T>.plus(element: T): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(size + 1))\n result.addAll(this)\n
result.add(element)\n return result\n}\n\n/**\n * Returns a set containing all elements of the
original set and the given [elements] array,\n * which aren't already in this set.\n * \n * The returned set preserves
the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Array<out T>):
Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))\n result.addAll(this)\n
result.addAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set and
the given [elements] collection,\n * which aren't already in this set.\n * \n * The returned set preserves the element
iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {\n
val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size *
2))\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all
elements of the original set and the given [elements] sequence,\n * which aren't already in this set.\n * \n * The
returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T>
Set<T>.plus(elements: Sequence<T>): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(this.size * 2))\n
result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all
elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set
preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Set<T>.plusElement(element: T): Set<T> {\n return plus(element)\n}\n\n"/\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage

```

kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:

```

empty.\n * \n * @sample samples.text.Strings.last\n * \npublic fun CharSequence.lastOrNull(): Char? {\n return if
(isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null`
if no such character was found.\n * \n * @sample samples.text.Strings.last\n * \npublic inline fun
CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a
random character from this char sequence.\n * \n * @throws NoSuchElementException if this char sequence is
empty.\n * \n * @SinceKotlin("1.3")\n * \n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char
{\n return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified
source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n
* \n * @SinceKotlin("1.3")\n * \npublic fun CharSequence.random(random: Random): Char {\n if (isEmpty())\n throw NoSuchElementException("Char sequence is empty.")\n return get(random.nextInt(length))\n}\n\n/**\n *
Returns a random character from this char sequence, or `null` if this char sequence is empty.\n
* \n * @SinceKotlin("1.4")\n * \n@WasExperimental(ExperimentalStdlibApi::class)\n * \n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.randomOrNull(): Char? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random character from this char sequence using the specified source of randomness, or `null` if this char sequence is
empty.\n * \n * @SinceKotlin("1.4")\n * \n@WasExperimental(ExperimentalStdlibApi::class)\n * \npublic fun
CharSequence.randomOrNull(random: Random): Char? {\n if (isEmpty())\n return null\n return
get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence
is empty or has more than one character.\n * \n * \npublic fun CharSequence.single(): Char {\n return when (length)
{\n 0 -> throw NoSuchElementException("Char sequence is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Char sequence has more than one element.")\n }\n}\n\n/**\n * Returns the single
character matching the given [predicate], or throws exception if there is no or more than one matching character.\n
* \n * \npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n var single: Char? = null\n var
found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw
IllegalArgumentException("Char sequence contains more than one matching element.")\n single =
element\n found = true\n }\n }\n if (!found) throw NoSuchElementException("Char sequence
contains no character matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return single as
Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n
* \n * \npublic fun CharSequence.singleOrNull(): Char? {\n return if (length == 1) this[0] else null\n}\n\n/**\n *
Returns the single character matching the given [predicate], or `null` if character was not found or more than one
character was found.\n * \n * \npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n
var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n
 if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return
single\n}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n * \n *
* \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n * \npublic fun
CharSequence.drop(n: Int): CharSequence {\n require(n >= 0) { "Requested character count $n is less than zero."
}\n return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters
removed.\n * \n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.text.Strings.drop\n * \npublic fun String.drop(n: Int): String {\n require(n >= 0) { "Requested character
count $n is less than zero." }\n return substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of
this char sequence with the last [n] characters removed.\n * \n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.text.Strings.drop\n * \npublic fun CharSequence.dropLast(n: Int):
CharSequence {\n require(n >= 0) { "Requested character count $n is less than zero." }\n return take((length -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a string with the last [n] characters removed.\n * \n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n * \npublic fun
String.dropLast(n: Int): String {\n require(n >= 0) { "Requested character count $n is less than zero." }\n return
take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a subsequence of this char sequence containing all
characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n

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```

*^public inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {
 for (index in lastIndex downTo 0)
 if (!predicate(this[index]))
 return subSequence(0, index + 1)
 return ""
}

* Returns a string containing all characters except last characters that satisfy the given [predicate].
* @sample samples.text.Strings.drop

*^public inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {
 for (index in lastIndex downTo 0)
 if (!predicate(this[index]))
 return substring(0, index + 1)
 return ""
}

* Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].
* @sample samples.text.Strings.drop

*^public inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {
 for (index in this.indices)
 if (!predicate(this[index]))
 return subSequence(index, length)
 return ""
}

* Returns a string containing all characters except first characters that satisfy the given [predicate].
* @sample samples.text.Strings.drop

*^public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
 for (index in this.indices)
 if (!predicate(this[index]))
 return substring(index)
 return ""
}

* Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].
* @sample samples.text.Strings.filter

*^public inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {
 return filterTo(StringBuilder(), predicate)
}

* Returns a string containing only those characters from the original string that match the given [predicate].
* @sample samples.text.Strings.filter

*^public inline fun String.filter(predicate: (Char) -> Boolean): String {
 return filterTo(StringBuilder(), predicate).toString()
}

* Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].
* @param [predicate] function that takes the index of a character and the character itself
* and returns the result of predicate evaluation on the character.
* @sample samples.collections.Collections.Filtering.filterIndexed

*^public inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {
 return filterIndexedTo(StringBuilder(), predicate)
}

* Returns a string containing only those characters from the original string that match the given [predicate].
* @param [predicate] function that takes the index of a character and the character itself
* and returns the result of predicate evaluation on the character.
* @sample samples.collections.Collections.Filtering.filterIndexed

*^public inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {
 return filterIndexedTo(StringBuilder(), predicate).toString()
}

* Appends all characters matching the given [predicate] to the given [destination].
* @param [predicate] function that takes the index of a character and the character itself
* and returns the result of predicate evaluation on the character.
* @sample samples.collections.Collections.Filtering.filterIndexedTo

*^public inline fun <C : Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
 forEachIndexed { index, element ->
 if (predicate(index, element)) destination.append(element)
 }
 return destination
}

* Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].
* @sample samples.text.Strings.filterNot

*^public inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {
 return filterNotTo(StringBuilder(), predicate)
}

* Returns a string containing only those characters from the original string that do not match the given [predicate].
* @sample samples.text.Strings.filterNot

*^public inline fun String.filterNot(predicate: (Char) -> Boolean): String {
 return filterNotTo(StringBuilder(), predicate).toString()
}

* Appends all characters not matching the given [predicate] to the given [destination].
* @sample samples.collections.Collections.Filtering.filterTo

*^public inline fun <C : Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
 for (element in this)
 if (!predicate(element)) destination.append(element)
 return destination
}

* Appends all characters matching the given [predicate] to the given [destination].
* @sample samples.collections.Collections.Filtering.filterTo

*^public inline fun <C : Appendable> CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {
 for (index in 0 until length) {
 val element = get(index)
 if (predicate(element)) destination.append(element)
 }
 return destination
}

* Returns a char sequence containing characters of the original char sequence at the specified range of [indices].
*^public fun CharSequence.slice(indices: IntRange): CharSequence {
 if

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(indices.isEmpty()) return ""\n return subSequence(indices)\n}\n\n/**\n * Returns a string containing characters
of the original string at the specified range of [indices].\n */\npublic fun String.slice(indices: IntRange): String {\n
if (indices.isEmpty()) return ""\n return substring(indices)\n}\n\n/**\n * Returns a char sequence containing
characters of the original char sequence at specified [indices].\n */\npublic fun CharSequence.slice(indices:
Iterable<Int>): CharSequence {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return ""\n
val result = StringBuilder(size)\n for (i in indices) {\n result.append(get(i))\n }\n return result\n}\n\n/**\n * Returns a string containing characters of the original string at specified [indices].\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun String.slice(indices: Iterable<Int>): String {\n return (this as
CharSequence).slice(indices).toString()\n}\n\n/**\n * Returns a subsequence of this char sequence containing the
first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun
CharSequence.take(n: Int): CharSequence {\n require(n >= 0) { "Requested character count $n is less than zero." }\n
return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a string containing the first [n]
characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if
[n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.take(n: Int): String {\n require(n
>= 0) { "Requested character count $n is less than zero." }\n return substring(0,
n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing the last [n]
characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun
CharSequence.takeLast(n: Int): CharSequence {\n require(n >= 0) { "Requested character count $n is less than
zero." }\n val length = length\n return subSequence(length - n.coerceAtMost(length), length)\n}\n\n/**\n *
Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun
String.takeLast(n: Int): String {\n require(n >= 0) { "Requested character count $n is less than zero." }\n val
length = length\n return substring(length - n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this
char sequence containing last characters that satisfy the given [predicate].\n * \n * @sample
samples.text.Strings.take\n */\npublic inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean):
CharSequence {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return
subSequence(index + 1, length)\n }\n }\n return subSequence(0, length)\n}\n\n/**\n * Returns a string
containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic
inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n return substring(index + 1)\n }\n}\n return this\n}\n\n/**\n * Returns
a subsequence of this char sequence containing the first characters that satisfy the given [predicate].\n * \n *
@sample samples.text.Strings.take\n */\npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean):
CharSequence {\n for (index in 0 until length)\n if (!predicate(get(index))) {\n return subSequence(0,
index)\n }\n return subSequence(0, length)\n}\n\n/**\n * Returns a string containing the first characters that
satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun
String.takeWhile(predicate: (Char) -> Boolean): String {\n for (index in 0 until length)\n if
(!predicate(get(index))) {\n return substring(0, index)\n }\n return this\n}\n\n/**\n * Returns a char
sequence with characters in reversed order.\n */\npublic fun CharSequence.reversed(): CharSequence {\n return
StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string with characters in reversed order.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {\n return (this as
CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by
[transform] function\n * applied to characters of the given char sequence.\n * \n * If any of two pairs would have the
same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the
original char sequence.\n * \n * @sample samples.text.Strings.associate\n */\npublic inline fun <K, V>
CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(length).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),

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transform)\n}\n\n/**\n * Returns a [Map] containing the characters from the given char sequence indexed by the
key\n * returned from [keySelector] function applied to each character.\n * \n * If any two characters would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateBy\n */\npublic inline
fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity =
mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to characters of the given char sequence.\n * \n * If any two characters would have
the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the
entry iteration order of the original char sequence.\n * \n * @sample
samples.text.Strings.associateByWithValueTransform\n */\npublic inline fun <K, V>
CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val capacity
= mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function applied to each character of the given char sequence\n
* and value is the character itself.\n * \n * If any two characters would have the same key returned by [keySelector]
the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateByTo\n */\npublic inline fun <K,
M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n
 for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function and\n * and value is provided by the [valueTransform] function applied to characters of the
given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one
gets added to the map.\n * \n * @sample samples.text.Strings.associateByToWithValueTransform\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char)
-> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each character of the given char
sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.text.Strings.associateTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>>
CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n
 destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are
characters from the given char sequence and values are\n * produced by the [valueSelector] function applied to each
character.\n * \n * If any two characters are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original char sequence.\n * \n * @sample
samples.text.Strings.associateWith\n */\n@SinceKotlin("1.3")\npublic inline fun <V>
CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n val result = LinkedHashMap<Char,
V>(mapCapacity(length).coerceAtMost(128)).coerceAtLeast(16)\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
character of the given char sequence,\n * where key is the character itself and value is provided by the
[valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites the
former value in the map.\n * \n * @sample samples.text.Strings.associateWithTo\n
*/\n@SinceKotlin("1.3")\npublic inline fun <V, M : MutableMap<in Char, in V>>
CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n for (element in this) {\n
 destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all characters to
the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>>
CharSequence.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return
destination\n}\n\n/**\n * Returns a new [HashSet] of all characters.\n */\npublic fun CharSequence.toHashSet():
HashSet<Char> {\n return toCollection(HashSet<Char>(mapCapacity(length).coerceAtMost(128)))\n}\n\n/**\n

```



```

Returns a [List] containing all characters.\n */\npublic fun CharSequence.toList(): List<Char> {\n return when
(length) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n *
Returns a new [MutableList] filled with all characters of this char sequence.\n */\npublic fun
CharSequence.toMutableList(): MutableList<Char> {\n return toCollection(ArrayList<Char>(length))\n}\n\n/**\n
* Returns a [Set] of all characters.\n * \n * The returned set preserves the element iteration order of the original char
sequence.\n */\npublic fun CharSequence.toSet(): Set<Char> {\n return when (length) {\n 0 -> emptySet()\n
 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n
 }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on
each character of original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each character\n * and its index in the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each character\n * and its index in the original char sequence, to the given
[destination].\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index:
Int, Char) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each character of original char sequence, to the given
[destination].\n */\n\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C,
transform: (Char) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups characters of the original char sequence by
the key returned by the given [keySelector] function\n * applied to each character and returns a map where each
group key is associated with a list of corresponding characters.\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\n\npublic inline fun <K>
CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return
groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each character of the original char sequence\n * by the key returned by the
given [keySelector] function applied to the character\n * and returns a map where each group key is associated with
a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n\npublic inline fun <K, V>
CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each
character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n
* @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M,
keySelector: (Char) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Char>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n *

```

Groups values returned by the [valueTransform] function applied to each character of the original char sequence by the key returned by the given [keySelector] function applied to the character and puts to the [destination] map each group key associated with a list of corresponding values.

```

@return The [destination] map.
@sample samples.collections.Collections.Transformations.groupByKeyAndValues
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key) { ArrayList<V>() }
 list.add(valueTransform(element))
 }
 return destination
}

```

Creates a [Grouping] source from a char sequence to be used later with one of group-and-fold operations using the specified [keySelector] function to extract a key from each character.

```

@sample samples.collections.Grouping.groupingByEachCount
@SinceKotlin("1.1")
public inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {
 return object : Grouping<Char, K> {
 override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()
 override fun keyOf(element: Char): K = keySelector(element)
 }
}

```

Returns a list containing the results of applying the given [transform] function to each character in the original char sequence.

```

@sample samples.text.Strings.map
public inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {
 return mapTo(ArrayList<R>(length), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each character and its index in the original char sequence.

```

@param [transform] function that takes the index of a character and the character itself
and returns the result of the transform applied to the character.
public inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {
 return mapIndexedTo(ArrayList<R>(length), transform)
}

```

Returns a list containing only the non-null results of applying the given [transform] function to each character and its index in the original char sequence.

```

@param [transform] function that takes the index of a character and the character itself
and returns the result of the transform applied to the character.
public inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {
 return mapIndexedNotNullTo(ArrayList<R>(), transform)
}

```

Applies the given [transform] function to each character and its index in the original char sequence and appends only the non-null results to the given [destination].

```

@param [transform] function that takes the index of a character and the character itself
and returns the result of the transform applied to the character.
public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {
 forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }
 return destination
}

```

Applies the given [transform] function to each character and its index in the original char sequence and appends the results to the given [destination].

```

@param [transform] function that takes the index of a character and the character itself
and returns the result of the transform applied to the character.
public inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
 var index = 0
 for (item in this) {
 destination.add(transform(index++, item))
 }
 return destination
}

```

Returns a list containing only the non-null results of applying the given [transform] function to each character in the original char sequence.

```

@sample samples.collections.Collections.Transformations.mapNotNull
public inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {
 return mapNotNullTo(ArrayList<R>(), transform)
}

```

Applies the given [transform] function to each character in the original char sequence and appends only the non-null results to the given [destination].

```

public inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {
 forEach { element -> transform(element)?.let { destination.add(it) } }
 return destination
}

```

Applies the given [transform] function to each character of the original char sequence and appends the results to the given [destination].

```

public inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R): C {
 for (item in this) {
 destination.add(transform(item))
 }
 return destination
}

```

Returns a lazy [Iterable] that wraps each character of the original char sequence into an [IndexedValue] containing the index of that character and the character itself.

```

public fun

```

CharSequence.withIndex(): Iterable<IndexedValue<Char>> {\n return IndexingIterable { iterator() }\n}\n\n/\*\*\n \* Returns `true` if all characters match the given [predicate].\n \* \n \* @sample

```

samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if char sequence has at least one character.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun CharSequence.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the length of this char sequence.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.count(): Int {\n return length\n}\n\n/**\n * Returns the number of characters matching the given [predicate].\n * \n */\npublic inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n * \n */\npublic inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n * \n */\npublic inline fun <R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character and current accumulator value.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.\n * \n */\npublic inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, the character itself\n * and current accumulator value, and calculates the next accumulator value.\n * \n */\npublic inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each character.\n * \n */\npublic inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each character, providing sequential index with the character.\n * \n * @param [action] function that takes the index of a character and the character itself\n * and performs the action on the character.\n * \n */\npublic inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun CharSequence.max(): Char? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.", ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {\n return maxByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the largest value of the given function or `null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */

```

```

*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> CharSequence.maxByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function * applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.maxOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector: (Char) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector: (Char) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function * applied to each character in the char sequence or `null` if there are no characters.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.maxOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator] * among all values produced by [selector] function applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.maxOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each character in the char sequence or `null` if there are no characters.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharSequence.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest character or `null` if there are no characters.\n
*/\n\n@SinceKotlin("1.4")\npublic fun
CharSequence.maxOrNull(): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex)
{\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n@Deprecated("Use maxWithOrNull
instead.", ReplaceWith("this.maxWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\npublic fun CharSequence.maxWith(comparator: Comparator<in Char>): Char? {\n return
maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first character having the largest value according to the
provided [comparator] or `null` if there are no characters.\n
*/\n\n@SinceKotlin("1.4")\npublic fun
CharSequence.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var
max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n
}\n return max\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic fun
CharSequence.min(): Char? {\n return minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead.",
ReplaceWith("this.minByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4")\npublic inline
fun <R : Comparable<R>> CharSequence.minBy(selector: (Char) -> R): Char? {\n return
minByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the smallest value of the given function or
`null` if there are no characters.\n
*/\n\n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> CharSequence.minByOrNull(selector: (Char) -
> R): Char? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.minOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no
characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector:
(Char) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector:
(Char) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence or `null` if there are no characters.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.minOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n
* \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.minOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each character in the char sequence or `null` if there are no characters.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n
 if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest character or `null` if there are no characters.\n
*/\n\n@SinceKotlin("1.4")\npublic fun
CharSequence.minOrNull(): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
 val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n@Deprecated("Use minWithOrNull
instead.", ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\npublic fun CharSequence.minWith(comparator: Comparator<in Char>): Char? {\n return
minWithOrNull(comparator)\n}\n\n/**\n * Returns the first character having the smallest value according to the
provided [comparator] or `null` if there are no characters.\n
*/\n\n@SinceKotlin("1.4")\npublic fun
CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var
min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n
}\n return min\n}\n\n/**\n * Returns `true` if the char sequence has no characters.\n * \n * @sample

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samples.collections.Collections.Aggregates.none\n */\npublic fun CharSequence.none(): Boolean {\n return
isEmpty()\n}\n\n/**\n * Returns `true` if no characters match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun
CharSequence.none(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Performs the given [action] on each character and returns the char sequence itself
afterwards.\n */\n@SinceKotlin("1.1")\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S
{\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each
character, providing sequential index with the character,\n * and returns the char sequence itself afterwards.\n *
@param [action] function that takes the index of a character and the character itself\n * and performs the action on
the character.\n */\n@SinceKotlin("1.4")\npublic inline fun <S : CharSequence> S.onEachIndexed(action: (index:
Int, Char) -> Unit): S {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with
the first character and applying [operation] from left to right\n * to current accumulator value and each character.\n *
Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n *
please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function
that takes current accumulator value and a character,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty char sequence can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to
right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n *
Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n *
please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of a character, current accumulator value and the character itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty char sequence can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to
right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n *
Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a
character, current accumulator value and the character itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun
CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
character and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n *
Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes current accumulator
value and a character,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
 }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation]
from right to left\n * to each character and current accumulator value.\n * \n * Throws an exception if this char
sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceRightOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes a character and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.reduceRight\n *^\npublic inline fun
CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0)
throw UnsupportedOperationException("\nEmpty char sequence can't be reduced.\n")\n var accumulator = get(index-
-)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to
left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Throws
an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n *^\npublic
inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index
= lastIndex\n if (index < 0) throw UnsupportedOperationException("\nEmpty char sequence can't be reduced.\n")\n
var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
character and applying [operation] from right to left\n * to each character with its index in the original char sequence
and current accumulator value.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation]
function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*^\n@SinceKotlin("1.4")\npublic inline fun CharSequence.reduceRightIndexedOrNull(operation: (index: Int, Char,
acc: Char) -> Char): Char? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index-
-)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from
right to left\n * to each character and current accumulator value.\n * \n * Returns `null` if the char sequence is
empty.\n * \n * @param [operation] function that takes a character and current accumulator value,\n * and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*^\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n var index = lastIndex\n if
(index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each character and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and a character, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n *^\n@SinceKotlin("1.4")\npublic inline fun
<R> CharSequence.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(length + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each character, its index in the original char sequence and current accumulator
value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes the index of a character, current accumulator value\n * and the character itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*^\n@SinceKotlin("1.4")\npublic inline fun <R> CharSequence.runningFoldIndexed(initial: R, operation: (index:
Int, acc: R, Char) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(length +
1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator =
operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to

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each character and current accumulator value that starts with the first character of this char sequence.

`\n * \n * Note that `acc` value passed to [operation] function should not be mutated;`

`\n * otherwise it would affect the previous value in resulting list.`

`\n * \n * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.`

`\n * \n * @sample`

```

samples.collections.Collections.Aggregates.runningReduce\n *
\n@SinceKotlin("1.4")\npublic inline fun
CharSequence.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(length).apply { add(accumulator) }\n
for (index in 1 until length) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each character, its index in the original char
sequence and current accumulator value that starts with the first character of this char sequence.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n *
and the character itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n *
\n@SinceKotlin("1.4")\npublic inline fun
CharSequence.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(length).apply {
add(accumulator) }\n for (index in 1 until length) {\n accumulator = operation(index, accumulator,
this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each character and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and a character, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each character, its index in the original char sequence and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n@Deprecated("Use runningReduce instead.",
ReplaceWith("runningReduce(operation)"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun
CharSequence.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n return
runningReduce(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.",
ReplaceWith("runningReduceIndexed(operation)"), level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun
CharSequence.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n return
runningReduceIndexed(operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each character in the char sequence.\n * \n */\npublic inline fun CharSequence.sumBy(selector: (Char) -> Int):
Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n
*\n */\npublic inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n var sum: Double =
0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of

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all values produced by [selector] function applied to each character in the char sequence.

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n
sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each character in the char sequence.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
 sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@ExperimentalUnsignedTypes\n@kotlin.internal
.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {\n var sum: UInt =
0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the
sum of all values produced by [selector] function applied to each character in the char sequence.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@kotlin.inter
nal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Splits this
char sequence into a list of strings each not exceeding the given [size].\n * \n * The last string in the resulting list
may have fewer characters than the given [size].\n * \n * @param size the number of elements to take in each string,
must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample
samples.text.Strings.chunked\n

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*\n@SinceKotlin("1.2")\npublic fun CharSequence.chunked(size: Int):
List<String> {\n return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this char sequence into
several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an
each.\n * \n * @return list of results of the [transform] applied to an each char sequence.\n * \n * Note that the char
sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not
store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have
fewer characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence,
must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample
samples.text.Strings.chunkedTransform\n

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```

*\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.chunked(size:
Int, transform: (CharSequence) -> R): List<R> {\n return windowed(size, size, partialWindows = true, transform =
transform)\n}\n\n/**\n * Splits this char sequence into a sequence of strings each not exceeding the given [size].\n *
\n * The last string in the resulting sequence may have fewer characters than the given [size].\n * \n * @param size
the number of elements to take in each string, must be positive and can be greater than the number of elements in
this char sequence.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n

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*\n@SinceKotlin("1.2")\npublic fun CharSequence.chunkedSequence(size: Int): Sequence<String> {\n return
chunkedSequence(size) { it.toString() }\n}\n\n/**\n * Splits this char sequence into several char sequences each not
exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return sequence of
results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the
[transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to
escape in some way, unless you made a snapshot of it.\n * The last char sequence may have fewer characters than

```

the given [size].\n \* \n \* @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n \* \n \* @sample samples.text.Strings.chunkedTransformToSequence\n \* \n \* @SinceKotlin("1.2")\n public fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {\n return windowedSequence(size, size, partialWindows = true, transform = transform)\n }\n\n\*\*\n \* Splits the original char sequence into pair of char sequences,\n \* where \*first\* char sequence contains characters for which [predicate] yielded `true`,\n \* while \*second\* char sequence contains characters for which [predicate] yielded `false`.\n \* \n \* @sample samples.text.Strings.partition\n \* \n \* @public inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {\n val first = StringBuilder()\n val second = StringBuilder()\n for (element in this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first, second)\n }\n\n\*\*\n \* Splits the original string into pair of strings,\n \* where \*first\* string contains characters for which [predicate] yielded `true`,\n \* while \*second\* string contains characters for which [predicate] yielded `false`.\n \* \n \* @sample samples.text.Strings.partition\n \* \n \* @public inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n val first = StringBuilder()\n val second = StringBuilder()\n for (element in this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first.toString(), second.toString())\n }\n\n\*\*\n \* Returns a list of snapshots of the window of the given [size]\n \* sliding along this char sequence with the given [step], where each\n \* snapshot is a string.\n \* \n \* Several last strings may have fewer characters than the given [size].\n \* \n \* Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n \* @param size the number of elements to take in each window\n \* @param step the number of elements to move the window forward by on an each step, by default 1\n \* @param partialWindows controls whether or not to keep partial windows in the end if any,\n \* by default `false` which means partial windows won't be preserved\n \* \n \* @sample samples.collections.Sequences.Transformations.takeWindows\n \* \n \* @SinceKotlin("1.2")\n public fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n return windowed(size, step, partialWindows) { it.toString() }\n }\n\n\*\*\n \* Returns a list of results of applying the given [transform] function to\n \* an each char sequence representing a view over the window of the given [size]\n \* sliding along this char sequence with the given [step].\n \* \n \* Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n \* You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n \* Several last char sequences may have fewer characters than the given [size].\n \* \n \* Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n \* @param size the number of elements to take in each window\n \* @param step the number of elements to move the window forward by on an each step, by default 1\n \* @param partialWindows controls whether or not to keep partial windows in the end if any,\n \* by default `false` which means partial windows won't be preserved\n \* \n \* @sample samples.collections.Sequences.Transformations.averageWindows\n \* \n \* @SinceKotlin("1.2")\n public fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): List<R> {\n checkWindowSizeStep(size, step)\n val thisSize = this.length\n val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n val result = ArrayList<R>(resultCapacity)\n var index = 0\n while (index in 0 until thisSize) {\n val end = index + size\n val coercedEnd = if (end < 0 || end > thisSize) {\n if (partialWindows) thisSize else break\n } else end\n result.add(transform(subSequence(index, coercedEnd)))\n index += step\n }\n return result\n }\n\n\*\*\n \* Returns a sequence of snapshots of the window of the given [size]\n \* sliding along this char sequence with the given [step], where each\n \* snapshot is a string.\n \* \n \* Several last strings may have fewer characters than the given [size].\n \* \n \* Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n \* @param size the number of elements to take in each window\n \* @param step the number of elements to move the window forward by on an each step, by default 1\n \* @param partialWindows controls whether or not to keep partial windows in the end if any,\n \* by default `false` which means partial windows won't be preserved\n \* \n \* @sample samples.collections.Sequences.Transformations.takeWindows\n \* \n \* @SinceKotlin("1.2")\n public fun

```

CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {
 return windowedSequence(size, step, partialWindows) { it.toString() }
}

/**
 * Returns a sequence of results of applying the given [transform] function to an each char sequence representing a view over the window of the given [size] sliding along this char sequence with the given [step].
 * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.
 * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
 * Several last char sequences may have fewer characters than the given [size].
 * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.
 * @param size the number of elements to take in each window
 * @param step the number of elements to move the window forward by on an each step, by default 1
 * @param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved
 * @sample samples.collections.Sequences.Transformations.averageWindows
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {
 checkWindowSizeStep(size, step)
 val windows = (if (partialWindows) indices else 0 until length - size + 1) step
 return windows.asSequence().map { index ->
 val end = index + size
 val coercedEnd = if (end < 0 || end > length) length else end
 transform(subSequence(index, coercedEnd))
 }
}

/**
 * Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index
 * The returned list has length of the shortest char sequence.
 * @sample samples.text.Strings.zip
 */
@public infix fun CharSequence.zip(other: CharSequence): List<Pair<Char, Char>> {
 return zip(other) { c1, c2 -> c1 to c2 }
}

/**
 * Returns a list of values built from the characters of `this` and the [other] char sequences with the same index
 * using the provided [transform] function applied to each pair of characters.
 * The returned list has length of the shortest char sequence.
 * @sample samples.text.Strings.zipWithTransform
 */
@public inline fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char, b: Char) -> V): List<V> {
 val length = minOf(this.length, other.length)
 val list = ArrayList<V>(length)
 for (i in 0 until length) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

/**
 * Returns a list of pairs of each two adjacent characters in this char sequence.
 * The returned list is empty if this char sequence contains less than two characters.
 * @sample samples.collections.Collections.Transformations.zipWithNext
 */
@SinceKotlin("1.2")
@public fun CharSequence.zipWithNext(): List<Pair<Char, Char>> {
 return zipWithNext { a, b -> a to b }
}

/**
 * Returns a list containing the results of applying the given [transform] function to an each pair of two adjacent characters in this char sequence.
 * The returned list is empty if this char sequence contains less than two characters.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
@public inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {
 val size = length - 1
 if (size < 1) return emptyList()
 val result = ArrayList<R>(size)
 for (index in 0 until size) {
 result.add(transform(this[index], this[index + 1]))
 }
 return result
}

/**
 * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.
 */
@public fun CharSequence.asIterable(): Iterable<Char> {
 if (this is String && isEmpty()) return emptyList()
 return Iterable { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original char sequence returning its characters when being iterated.
 */
@public fun CharSequence.asSequence(): Sequence<Char> {
 if (this is String && isEmpty()) return emptySequence()
 return Sequence { this.iterator() }
}

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
package kotlin.text
import kotlin.contracts.contract
import kotlin.jvm.JvmName

/**
 * Returns a copy of this string converted to upper case using the rules of the default locale.
 */
@public expect fun String.toUpperCase(): String

/**
 * Returns a copy of this string converted to upper case using Unicode mapping rules of the invariant locale.
 * This function supports one-to-many and many-to-one character mapping, thus the length of the returned string can be different from the length of the original string.
 * @sample
 */

```

```

samples.text.Strings.uppercase\n *\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic expect fun
String.uppercase(): String\n\n/**\n * Returns a copy of this string converted to lower case using the rules of the
default locale.\n *\npublic expect fun String.toLowerCase(): String\n\n/**\n * Returns a copy of this string
converted to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-
many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length
of the original string.\n *\n * @sample samples.text.Strings.lowercase\n
*\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic expect fun String.lowercase(): String\n\n/**\n *
Returns a copy of this string having its first letter titlecased using the rules of the default locale,\n * or the original
string if it's empty or already starts with a title case letter.\n *\n * The title case of a character is usually the same as
its upper case with several exceptions.\n * The particular list of characters with the special title case form depends
on the underlying platform.\n *\n * @sample samples.text.Strings.capitalize\n *\npublic expect fun
String.capitalize(): String\n\n/**\n * Returns a copy of this string having its first letter lowercased using the rules of
the default locale,\n * or the original string if it's empty or already starts with a lower case letter.\n *\n * @sample
samples.text.Strings.decapitalize\n *\npublic expect fun String.decapitalize(): String\n\n/**\n * Returns a sub
sequence of this char sequence having leading and trailing characters matching the [predicate] removed.\n *\npublic
inline fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\n var startIndex = 0\n var
endIndex = length - 1\n var startFound = false\n\n while (startIndex <= endIndex) {\n val index = if
(!startFound) startIndex else endIndex\n val match = predicate(this[index])\n\n if (!startFound) {\n if
(!match)\n startFound = true\n else\n startIndex += 1\n } else {\n if (!match)\n break\n else\n endIndex -= 1\n }\n }\n\n return subSequence(startIndex, endIndex +
1)\n}\n\n/**\n * Returns a string having leading and trailing characters matching the [predicate] removed.\n
*\npublic inline fun String.trim(predicate: (Char) -> Boolean): String =\n (this as
CharSequence).trim(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading
characters matching the [predicate] removed.\n *\npublic inline fun CharSequence.trimStart(predicate: (Char) ->
Boolean): CharSequence {\n for (index in this.indices)\n if (!predicate(this[index]))\n return
subSequence(index, length)\n\n return ""\n}\n\n/**\n * Returns a string having leading characters matching the
[predicate] removed.\n *\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\n (this as
CharSequence).trimStart(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having
trailing characters matching the [predicate] removed.\n *\npublic inline fun CharSequence.trimEnd(predicate:
(Char) -> Boolean): CharSequence {\n for (index in this.indices.reversed())\n if (!predicate(this[index]))\n return
subSequence(0, index + 1)\n\n return ""\n}\n\n/**\n * Returns a string having trailing characters
matching the [predicate] removed.\n *\npublic inline fun String.trimEnd(predicate: (Char) -> Boolean): String =\n (this as
CharSequence).trimEnd(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence
having leading and trailing characters from the [chars] array removed.\n *\npublic fun CharSequence.trim(vararg
chars: Char): CharSequence = trim { it in chars }\n\n/**\n * Returns a string having leading and trailing characters
from the [chars] array removed.\n *\npublic fun String.trim(vararg chars: Char): String = trim { it in chars
}\n\n/**\n * Returns a sub sequence of this char sequence having leading characters from the [chars] array
removed.\n *\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars
}\n\n/**\n * Returns a string having leading characters from the [chars] array removed.\n *\npublic fun
String.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n/**\n * Returns a sub sequence of this char
sequence having trailing characters from the [chars] array removed.\n *\npublic fun CharSequence.trimEnd(vararg
chars: Char): CharSequence = trimEnd { it in chars }\n\n/**\n * Returns a string having trailing characters from the
[chars] array removed.\n *\npublic fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\n\n/**\n
 * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.\n *\npublic fun
CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n/**\n * Returns a string having leading and
trailing whitespace removed.\n *\n@kotlin.internal\npublic inline fun String.trim(): String = (this as
CharSequence).trim().toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading whitespace
removed.\n *\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\n\n/**\n *

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Returns a string having leading whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
String.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this
char sequence having trailing whitespace removed.\n */\npublic fun CharSequence.trimEnd(): CharSequence =
trimEnd(Char::isWhitespace)\n\n/**\n * Returns a string having trailing whitespace removed.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as
CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at
the beginning\n * to the specified [length] with the specified character or space.\n */\n * @param length the desired
string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified.
Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char
sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample
samples.text.Strings.padStart\n */\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '):
CharSequence {\n if (length < 0)\n throw IllegalArgumentException("Desired length $length is less than
zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =
StringBuilder(length)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n sb.append(this)\n return
sb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n */\n *
@param length the desired string length.\n * @param padChar the character to pad string with, if it has length less
than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]
consisting of `this` string prepended with [padChar] as many times\n * as are necessary to reach that length.\n *
@sample samples.text.Strings.padStart\n */\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\n
(this as CharSequence).padStart(length, padChar).toString()\n\n/**\n * Returns a char sequence with content of this
char sequence padded at the end\n * to the specified [length] with the specified character or space.\n */\n * @param
length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the
[length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length]
consisting of `this` char sequence appended with [padChar] as many times\n * as are necessary to reach that
length.\n * @sample samples.text.Strings.padEnd\n */\npublic fun CharSequence.padEnd(length: Int, padChar: Char
= ' '): CharSequence {\n if (length < 0)\n throw IllegalArgumentException("Desired length $length is less
than zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =
StringBuilder(length)\n sb.append(this)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n return
sb\n}\n\n/**\n * Pads the string to the specified [length] at the end with the specified character or space.\n */\n *
@param length the desired string length.\n * @param padChar the character to pad string with, if it has length less
than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]
consisting of `this` string appended with [padChar] as many times\n * as are necessary to reach that length.\n *
@sample samples.text.Strings.padEnd\n */\npublic fun String.padEnd(length: Int, padChar: Char = ' '): String =\n
(this as CharSequence).padEnd(length, padChar).toString()\n\n/**\n * Returns `true` if this nullable char sequence is
either `null` or empty.\n */\n * @sample samples.text.Strings.stringOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\n contract {\n
returns(false) implies (this@isNullOrEmpty != null)\n }\n\n return this == null || this.length == 0\n}\n\n/**\n *
Returns `true` if this char sequence is empty (contains no characters).\n */\n * @sample
samples.text.Strings.stringIsEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty():
Boolean = length == 0\n\n/**\n * Returns `true` if this char sequence is not empty.\n */\n * @sample
samples.text.Strings.stringIsNotEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.isNotEmpty(): Boolean = length > 0\n\n// implemented differently in JVM and JS\n//public fun
String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }\n\n/**\n * Returns `true` if this char sequence
is not empty and contains some characters except of whitespace characters.\n */\n * @sample
samples.text.Strings.stringIsNotBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.isNotBlank(): Boolean = !isBlank()\n\n/**\n * Returns `true` if this nullable char sequence is either
`null` or empty or consists solely of whitespace characters.\n */\n * @sample
samples.text.Strings.stringOrNullOrBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

CharSequence?.isNullOrBlank(): Boolean {
 contract {
 returns(false) implies (this@isNullOrBlank !=
null)
 }
 return this == null || this.isBlank()
}

/**
 * Iterator for characters of the given char sequence.
 */
public operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {
 private var index = 0
 public override fun nextChar(): Char = get(index++)
 public override fun hasNext(): Boolean = index <
length
}

/**
 * Returns the string if it is not `null`, or the empty string otherwise.
 */
@kotlin.internal.InlineOnly
public inline fun String?.orEmpty(): String = this ?: ""

/**
 * Returns this char sequence if it's not empty or the result of calling [defaultValue] function if the char sequence is empty.
 */
@sample samples.text.Strings.stringIfEmpty

/**
 * Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters, or the result of calling [defaultValue] function otherwise.
 */
@sample samples.text.Strings.stringIfBlank

/**
 * Returns the range of valid character indices for this char sequence.
 */
public val CharSequence.indices: IntRange
 get() = 0..length - 1

/**
 * Returns the index of the last character in the char sequence or -1 if it is empty.
 */
public val CharSequence.lastIndex: Int
 get() = this.length - 1

/**
 * Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].
 */
public fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {
 return index in 0..length - 2
 && this[index].isHighSurrogate()
 && this[index + 1].isLowSurrogate()
}

/**
 * Returns a substring specified by the given [range] of indices.
 */
public fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

/**
 * Returns a subsequence of this char sequence specified by the given [range] of indices.
 */
public fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)

/**
 * Returns a subsequence of this char sequence.
 */
/* This extension is chosen only for invocation with old-named parameters.
 * Replace parameter names with the same as those of [CharSequence.subSequence].
 */
@kotlin.internal.InlineOnly
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false
warning
@Deprecated("Use parameters named startIndex and endIndex.", ReplaceWith("subSequence(startIndex = start, endIndex = end)"))
public inline fun String.subSequence(start: Int, end: Int): CharSequence =
subSequence(start, end)

/**
 * Returns a substring of chars from a range of this char sequence starting at the [startIndex] and ending right before the [endIndex].
 */
/* @param startIndex the start index (inclusive).
 * @param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length):
String = subSequence(startIndex, endIndex).toString()

/**
 * Returns a substring of chars at indices from the specified [range] of this char sequence.
 */
public fun CharSequence.substring(range: IntRange): String =
subSequence(range.start, range.endInclusive + 1).toString()

/**
 * Returns a substring before the first occurrence of [delimiter].
 */
/* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {
 val index = indexOf(delimiter)
 return if (index == -1) missingDelimiterValue else substring(0, index)
}

/**
 * Returns a substring before the first occurrence of [delimiter].
 */
/* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {
 val index =
indexOf(delimiter)
 return if (index == -1) missingDelimiterValue else substring(0, index)
}

/**
 * Returns a substring after the first occurrence of [delimiter].
 */
/* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {
 val index = indexOf(delimiter)
 return if (index == -1)
missingDelimiterValue else substring(index + 1, length)
}

/**
 * Returns a substring after the first occurrence of [delimiter].
 */
/* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this):
String =
substring(indexOf(delimiter) + 1, length)
}

```

```

String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(index +
delimiter.length, length)\n}\n\n/**\n * Returns a substring before the last occurrence of [delimiter].\n * If the string
does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic
fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {\n val index =
lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n *
Returns a substring before the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBeforeLast(delimiter:
String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index ==
-1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the last occurrence of
[delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the
original string.\n */\npublic fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this):
String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else
substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the
string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\n
public fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\n val
index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(index +
delimiter.length, length)\n}\n\n/**\n * Returns a char sequence with content of this char sequence where its part at
the given range\n * is replaced with the [replacement] char sequence.\n * @param startIndex the index of the first
character to be replaced.\n * @param endIndex the index of the first character after the replacement to keep in the
string.\n */\n@OptIn(ExperimentalStdlibApi::class)\npublic fun CharSequence.replaceRange(startIndex: Int,
endIndex: Int, replacement: CharSequence): CharSequence {\n if (endIndex < startIndex)\n throw
IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")\n val sb =
StringBuilder()\n sb.appendRange(this, 0, startIndex)\n sb.append(replacement)\n sb.appendRange(this,
endIndex, length)\n return sb\n}\n\n/**\n * Replaces the part of the string at the given range with the
[replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param
endIndex the index of the first character after the replacement to keep in the string.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement:
CharSequence): String =\n (this as CharSequence).replaceRange(startIndex, endIndex,
replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the
given [range]\n * is replaced with the [replacement] char sequence.\n */\n * The end index of the [range] is included
in the part to be replaced.\n */\npublic fun CharSequence.replaceRange(range: IntRange, replacement:
CharSequence): CharSequence =\n replaceRange(range.start, range.endInclusive + 1, replacement)\n\n/**\n *
Replace the part of string at the given [range] with the [replacement] string.\n */\n * The end index of the [range] is
included in the part to be replaced.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(range:
IntRange, replacement: CharSequence): String =\n (this as CharSequence).replaceRange(range,
replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the
given range is removed.\n */\n * @param startIndex the index of the first character to be removed.\n * @param
endIndex the index of the first character after the removed part to keep in the string.\n */\n * [endIndex] is not
included in the removed part.\n */\n@OptIn(ExperimentalStdlibApi::class)\npublic fun
CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {\n if (endIndex < startIndex)\n
throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")\n if
(endIndex == startIndex)\n return this.subSequence(0, length)\n val sb = StringBuilder(length - (endIndex -
startIndex))\n sb.appendRange(this, 0, startIndex)\n sb.appendRange(this, endIndex, length)\n return
sb\n}\n\n/**\n * Removes the part of a string at a given range.\n * @param startIndex the index of the first character
to be removed.\n * @param endIndex the index of the first character after the removed part to keep in the string.\n
*/\n * [endIndex] is not included in the removed part.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
String.removeRange(startIndex: Int, endIndex: Int): String =\n (this as CharSequence).removeRange(startIndex,
endIndex).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the

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given [range] is removed.\n \* The end index of the [range] is included in the removed part.\n \*/\npublic fun CharSequence.removeRange(range: IntRange): CharSequence = removeRange(range.start, range.endInclusive + 1)\n \*/\n \* Removes the part of a string at the given [range].\n \* The end index of the [range] is included in the removed part.\n \*/\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(range: IntRange): String =\n (this as CharSequence).removeRange(range).toString()\n \*/\n \* If this char sequence starts with the given [prefix], returns a new char sequence\n \* with the prefix removed. Otherwise, returns a new char sequence with the same characters.\n \*/\npublic fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {\n if (startsWith(prefix)) {\n return subSequence(prefix.length, length)\n }\n return subSequence(0, length)\n }\n \*/\n \* If this string starts with the given [prefix], returns a copy of this string\n \* with the prefix removed. Otherwise, returns this string.\n \*/\npublic fun String.removePrefix(prefix: CharSequence): String {\n if (startsWith(prefix)) {\n return substring(prefix.length)\n }\n return this\n }\n \*/\n \* If this char sequence ends with the given [suffix], returns a new char sequence\n \* with the suffix removed. Otherwise, returns a new char sequence with the same characters.\n \*/\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {\n if (endsWith(suffix)) {\n return subSequence(0, length - suffix.length)\n }\n return subSequence(0, length)\n }\n \*/\n \* If this string ends with the given [suffix], returns a copy of this string\n \* with the suffix removed. Otherwise, returns this string.\n \*/\npublic fun String.removeSuffix(suffix: CharSequence): String {\n if (endsWith(suffix)) {\n return substring(0, length - suffix.length)\n }\n return this\n }\n \*/\n \* When this char sequence starts with the given [prefix] and ends with the given [suffix],\n \* returns a new char sequence having both the given [prefix] and [suffix] removed.\n \* Otherwise returns a new char sequence with the same characters.\n \*/\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return subSequence(prefix.length, length - suffix.length)\n }\n return subSequence(0, length)\n }\n \*/\n \* Removes from a string both the given [prefix] and [suffix] if and only if\n \* it starts with the [prefix] and ends with the [suffix].\n \* Otherwise returns this string unchanged.\n \*/\npublic fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return substring(prefix.length, length - suffix.length)\n }\n return this\n }\n \*/\n \* When this char sequence starts with and ends with the given [delimiter],\n \* returns a new char sequence having this [delimiter] removed both from the start and end.\n \* Otherwise returns a new char sequence with the same characters.\n \*/\npublic fun CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter, delimiter)\n \*/\n \* Removes the given [delimiter] string from both the start and the end of this string\n \* if and only if it starts with and ends with the [delimiter].\n \* Otherwise returns this string unchanged.\n \*/\npublic fun String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n \*/\n \* Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n }\n \*/\n \* Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun String.replaceBefore(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n }\n \*/\n \* Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n }\n \*/\n \* Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n }\n \*/\n

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replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if
(index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/**\n *
Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n * If the string does
not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\n\npublic fun
String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n
val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index +
delimiter.length, length, replacement)\n}\n\n/**\n * Replace part of string after the last occurrence of given
delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\n\npublic fun String.replaceAfterLast(delimiter:
Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n
return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/**\n *
Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n * If the string
does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\n\npublic
fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n
val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index,
replacement)\n}\n\n/**\n * Replace part of string before the last occurrence of given delimiter with the
[replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults
to the original string.\n */\n\npublic fun String.replaceBeforeLast(delimiter: String, replacement: String,
missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1)
missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n\n// public fun String.replace(oldChar: Char,
newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun String.replace(oldValue: String,
newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\n\n/**\n * Returns a new string obtained by
replacing each substring of this char sequence that matches the given regular expression\n * with the given
[replacement].\n * The [replacement] can consist of any combination of literal text and $-substitutions. To treat
the replacement string\n * literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, replacement: String): String
= regex.replace(this, replacement)\n\n/**\n * Returns a new string obtained by replacing each substring of this char
sequence that matches the given regular expression\n * with the result of the given function [transform] that takes
[MatchResult] and returns a string to be used as a\n * replacement for that match.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline transform:
(MatchResult) -> CharSequence): String =\n regex.replace(this, transform)\n\n/**\n * Replaces the first
occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\n
*/\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for
details.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement:
String): String = regex.replaceFirst(this, replacement)\n\n/**\n * Returns a copy of this string having its first
character replaced with the result of the specified [transform],\n * or the original string if it's empty.\n */\n * @param
transform function that takes the first character and returns the result of the transform applied to the character.\n
*/\n * @sample samples.text.Strings.replaceFirstChar\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n
@OverloadResolutionByLambdaReturnType\n@JvmName("replaceFirstCharWithChar")\n\n@kotlin.internal.InlineOnly\npublic
inline fun String.replaceFirstChar(transform: (Char) -> Char): String {\n return if
(isNotEmpty()) transform(this[0]) + substring(1) else this\n}\n\n/**\n * Returns a copy of this string having its
first character replaced with the result of the specified [transform],\n * or the original string if it's empty.\n */\n *
@param transform function that takes the first character and returns the result of the transform applied to the
character.\n */\n * @sample samples.text.Strings.replaceFirstChar\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n
@OverloadResolutionByLambdaReturnType\n@JvmName("replaceFirstCharWithCharSequence")\n\n@kotlin.internal.InlineOnly\n
public inline fun String.replaceFirstChar(transform: (Char) -> CharSequence): String {\n

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return if (isEmpty()) transform(this[0]).toString() + substring(1) else this\n}\n\n/**\n * Returns `true` if this
char sequence matches the given regular expression.\n */\n@kotlin.internal.InlineOnly\npublic inline infix fun
CharSequence.matches(regex: Regex): Boolean = regex.matches(this)\n\n/**\n * Implementation of
[regionMatches] for CharSequences.\n * Invoked when it's already known that arguments are not Strings, so that no
additional type checks are performed.\n */\ninternal fun CharSequence.regionMatchesImpl(thisOffset: Int, other:
CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {\n if ((otherOffset < 0) || (thisOffset <
0) || (thisOffset > this.length - length) || (otherOffset > other.length - length)) {\n return false\n }\n for
(index in 0 until length) {\n if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\n return false\n }\n return true\n}\n\n/**\n * Returns `true` if this char sequence starts with the specified
character.\n */\npublic fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n this.length > 0 && this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence ends with the
specified character.\n */\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n this.length > 0 && this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts
with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean =
false): Boolean {\n if (!ignoreCase && this is String && prefix is String)\n return this.startsWith(prefix)\n else\n return regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if a
substring of this char sequence starting at the specified offset [startIndex] starts with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean = false):
Boolean {\n if (!ignoreCase && this is String && prefix is String)\n return this.startsWith(prefix,
startIndex)\n else\n return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n *
Returns `true` if this char sequence ends with the specified suffix.\n */\npublic fun CharSequence.endsWith(suffix:
CharSequence, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase && this is String && suffix is String)\n
 return this.endsWith(suffix)\n else\n return regionMatchesImpl(length - suffix.length, suffix, 0,
suffix.length, ignoreCase)\n}\n\n// common prefix and suffix\n\n/**\n * Returns the longest string `prefix` such
that this char sequence and [other] char sequence both start with this prefix,\n * taking care not to split surrogate
pairs.\n * If this and [other] have no common prefix, returns the empty string.\n */\n * @param ignoreCase `true` to
ignore character case when matching a character. By default `false`.\n * @sample
samples.text.Strings.commonPrefixWith\n */\npublic fun CharSequence.commonPrefixWith(other: CharSequence,
ignoreCase: Boolean = false): String {\n val shortestLength = minOf(this.length, other.length)\n var i = 0\n while (i < shortestLength && this[i].equals(other[i], ignoreCase = ignoreCase)) {\n i++\n }\n if
(this.hasSurrogatePairAt(i - 1) || other.hasSurrogatePairAt(i - 1)) {\n i--\n }\n return subSequence(0,
i).toString()\n}\n\n/**\n * Returns the longest string `suffix` such that this char sequence and [other] char sequence
both end with this suffix,\n * taking care not to split surrogate pairs.\n * If this and [other] have no common suffix,
returns the empty string.\n */\n * @param ignoreCase `true` to ignore character case when matching a character. By
default `false`.\n * @sample samples.text.Strings.commonSuffixWith\n */\npublic fun
CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n val thisLength =
this.length\n val otherLength = other.length\n val shortestLength = minOf(thisLength, otherLength)\n var i
= 0\n while (i < shortestLength && this[thisLength - i - 1].equals(other[otherLength - i - 1], ignoreCase =
ignoreCase)) {\n i++\n }\n if (this.hasSurrogatePairAt(thisLength - i - 1) ||
other.hasSurrogatePairAt(otherLength - i - 1)) {\n i--\n }\n return subSequence(thisLength - i,
thisLength).toString()\n}\n\n// indexOfAny()\n\n/**\n * Finds the index of the first occurrence of any of the
specified [chars] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the
case.\n */\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n *
@return An index of the first occurrence of matched character from [chars] or -1 if none of [chars] are found.\n */\npublic fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false): Int
{\n if (!ignoreCase && chars.size == 1 && this is String) {\n val char = chars.single()\n return
nativeIndexOf(char, startIndex)\n }\n for (index in startIndex.coerceAtLeast(0)..lastIndex) {\n val
charAtIndex = get(index)\n if (chars.any { it.equals(charAtIndex, ignoreCase) })\n return index\n }\n}

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return -1\n\n/**\n * Finds the index of the last occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.\n *\n */\npublic fun CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n if (!ignoreCase && chars.size == 1 && this is String) {\n val char = chars.single()\n return nativeLastIndexOf(char, startIndex)\n }\n\n for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\n val charAtIndex = get(index)\n if (chars.any { it.equals(charAtIndex, ignoreCase) })\n return index\n }\n\n return -1\n}\n\nprivate fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int, ignoreCase: Boolean, last: Boolean = false): Int {\n val indices = if (!last)\n startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\n else\n startIndex.coerceAtMost(lastIndex)\n downTo endIndex.coerceAtLeast(0)\n\n if (this is String && other is String) { // smart cast\n for (index in indices) {\n if (other.regionMatches(0, this, index, other.length, ignoreCase))\n return index\n }\n } else {\n for (index in indices) {\n if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase))\n return index\n }\n }\n\n return -1\n}\n\nprivate fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {\n if (!ignoreCase && strings.size == 1) {\n val string = strings.single()\n val index = if (!last) indexOf(string, startIndex) else\n lastIndexOf(string, startIndex)\n return if (index < 0) null else index to string\n }\n\n val indices = if (!last)\n startIndex.coerceAtLeast(0)..length else\n startIndex.coerceAtMost(lastIndex) downTo 0\n\n if (this is String) {\n for (index in indices) {\n val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\n if (matchingString != null)\n return index to matchingString\n }\n } else {\n for (index in indices) {\n val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }\n if (matchingString != null)\n return index to matchingString\n }\n }\n\n return null\n}\n\n/**\n * Finds the first occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return A pair of an index of the first occurrence of matched string from [strings] and the string matched\n * or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n *\n */\npublic fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int, String>? =\n findAnyOf(strings, startIndex, ignoreCase, last = false)\n\n/**\n * Finds the last occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return A pair of an index of the last occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n *\n */\npublic fun CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Pair<Int, String>? =\n findAnyOf(strings, startIndex, ignoreCase, last = true)\n\n/**\n * Finds the index of the first occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n *\n */\npublic fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\n
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findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1\n\n/**\n * Finds the index of the last occurrence
of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally
ignoring the case.\n * @param startIndex The index of character to start searching at. The search proceeds
backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching
a string. By default `false`.\n * @return An index of the last occurrence of matched string from [strings] or -1 if
none of [strings] are found.\n * To avoid ambiguous results when strings in [strings] have characters in common,
this method proceeds from\n * the end toward the beginning of this string, and finds at each position the first
element in [strings]\n * that matches this string at that position.\n */\npublic fun
CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean =
false): Int =\n findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1\n\n\n// indexOf\n\n/**\n * Returns
the index within this string of the first occurrence of the specified character, starting from the specified
[startIndex].\n * @param ignoreCase `true` to ignore character case when matching a character. By default
`false`.\n * @return An index of the first occurrence of [char] or -1 if none is found.\n */\npublic fun
CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n return if (ignoreCase
|| this !is String)\n indexOfAny(charArrayOf(char), startIndex, ignoreCase)\n else\n nativeIndexOf(char,
startIndex)\n}\n\n\n/**\n * Returns the index within this char sequence of the first occurrence of the specified
[string],\n * starting from the specified [startIndex].\n * @param ignoreCase `true` to ignore character case when
matching a string. By default `false`.\n * @return An index of the first occurrence of [string] or -1 if none is
found.\n * @sample samples.text.Strings.indexOf\n */\npublic fun CharSequence.indexOf(string: String, startIndex:
Int = 0, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOf(string,
startIndex, length, ignoreCase)\n else\n nativeIndexOf(string, startIndex)\n}\n\n\n/**\n * Returns the index
within this char sequence of the last occurrence of the specified character,\n * starting from the specified
[startIndex].\n * @param startIndex The index of character to start searching at. The search proceeds backward
toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a
character. By default `false`.\n * @return An index of the last occurrence of [char] or -1 if none is found.\n
*/\npublic fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int
{\n return if (ignoreCase || this !is String)\n lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)\n
 else\n nativeLastIndexOf(char, startIndex)\n}\n\n\n/**\n * Returns the index within this char sequence of the last
occurrence of the specified [string],\n * starting from the specified [startIndex].\n * @param startIndex The
index of character to start searching at. The search proceeds backward toward the beginning of the string.\n *
@param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index
of the last occurrence of [string] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(string: String,
startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n
 indexOf(string, startIndex, 0, ignoreCase, last = true)\n else\n nativeLastIndexOf(string,
startIndex)\n}\n\n\n/**\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as
a substring.\n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n
*/\n\n\n@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun
CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\n if (other is String)\n indexOf(other, ignoreCase = ignoreCase) >= 0\n else\n indexOf(other, 0, length, ignoreCase) >=
0\n\n\n\n/**\n * Returns `true` if this char sequence contains the specified character [char].\n * @param
ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n
*/\n\n\n@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun CharSequence.contains(char:
Char, ignoreCase: Boolean = false): Boolean =\n indexOf(char, ignoreCase = ignoreCase) >= 0\n\n\n\n/**\n * Returns
`true` if this char sequence contains at least one match of the specified regular expression [regex].\n
*/\n\n\n@kotlin.internal.InlineOnly\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean =
regex.containsMatchIn(this)\n\n\n\n// rangesDelimitedBy\n\n\nprivate class DelimitedRangesSequence(\n private
val input: CharSequence,\n private val startIndex: Int,\n private val limit: Int,\n private val getNextMatch:
CharSequence.(currentIndex: Int) -> Pair<Int, Int>?) : Sequence<IntRange> {\n override fun iterator():

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Iterator<IntRange> = object : Iterator<IntRange> {
 var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for
 continue
 var currentStartIndex: Int = startIndex.coerceIn(0, input.length)
 var nextSearchIndex: Int = currentStartIndex
 var nextItem: IntRange? = null
 var counter: Int = 0
 private fun calcNext() {
 if (nextSearchIndex < 0) {
 nextState = 0
 nextItem = null
 } else {
 if (limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {
 nextItem = currentStartIndex..input.lastIndex
 nextSearchIndex = -1
 } else {
 val match = input.getNextMatch(nextSearchIndex)
 if (match == null) {
 nextItem = currentStartIndex..input.lastIndex
 nextSearchIndex = -1
 } else {
 val (index, length) = match
 nextItem = currentStartIndex until index
 currentStartIndex = index + length
 nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0
 }
 }
 nextState = 1
 }
 }
 override fun next(): IntRange {
 if (nextState == -1) {
 calcNext()
 if (nextState == 0) {
 throw NoSuchElementException()
 }
 val result = nextItem as IntRange
 // Clean next to avoid keeping reference on yielded instance
 nextItem = null
 nextState = -1
 return result
 }
 override fun hasNext(): Boolean {
 if (nextState == -1) {
 calcNext()
 return nextState == 1
 }
 }
 }
}

```

Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].
 @param delimiters One or more characters to be used as delimiters.
 @param startIndex The index to start searching delimiters from.
 No range having its start value less than [startIndex] is returned.
 [startIndex] is coerced to be non-negative and not greater than length of this string.
 @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 @param limit The maximum number of substrings to return. Zero by default means no limit is set.

private fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {
 require(limit >= 0, { "\"Limit must be non-negative, but was \$limit.\" })
 return DelimitedRangesSequence(this, startIndex, limit, { currentIndex -> indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 } })
 }

Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].
 @param delimiters One or more strings to be used as delimiters.
 @param startIndex The index to start searching delimiters from.
 No range having its start value less than [startIndex] is returned.
 [startIndex] is coerced to be non-negative and not greater than length of this string.
 @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [delimiters] that matches this string at that position.

private fun CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {
 require(limit >= 0, { "\"Limit must be non-negative, but was \$limit.\" })
 val delimitersList = delimiters.asList()
 return DelimitedRangesSequence(this, startIndex, limit, { currentIndex -> findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length } })
 }

Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].
 @param delimiters One or more strings to be used as delimiters.
 @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [delimiters] that matches this string at that position.

public fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =
 rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }

Splits this char sequence to a list of strings around occurrences of the specified [delimiters].
 @param delimiters One or more strings to be used as delimiters.
 @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 @param limit The maximum number of substrings to return. Zero by default means

```

no limit is set.\n *\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this
method proceeds from\n * the beginning to the end of this string, and matches at each position the first element in
[delimiters]\n * that is equal to a delimiter in this instance at that position.\n *\npublic fun
CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\n if
(delimiters.size == 1) {\n val delimiter = delimiters[0]\n if (!delimiter.isEmpty()) {\n return
split(delimiter, ignoreCase, limit)\n }\n }\n\n return rangesDelimitedBy(delimiters, ignoreCase =
ignoreCase, limit = limit).asIterable().map { substring(it) }\n}\n\n/**\n * Splits this char sequence to a sequence of
strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more characters to be
used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default
`false`.\n * @param limit The maximum number of substrings to return.\n */\npublic fun
CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0):
Sequence<String> =\n rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it)
}\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\n *\n *
@param delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore
character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings
to return.\n */\npublic fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0):
List<String> {\n if (delimiters.size == 1) {\n return split(delimiters[0].toString(), ignoreCase, limit)\n }\n\n
return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it)
}\n}\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].\n * This
is specialized version of split which receives single non-empty delimiter and offers better performance\n *\n *
@param delimiter String used as delimiter\n * @param ignoreCase `true` to ignore character case when matching a
delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\nprivate fun
CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {\n require(limit >= 0, {
"\nLimit must be non-negative, but was $limit." })\n\n var currentOffset = 0\n var nextIndex =
indexOf(delimiter, currentOffset, ignoreCase)\n if (nextIndex == -1 || limit == 1) {\n return
listOf(this.toString())\n }\n\n val isLimited = limit > 0\n val result = ArrayList<String>(if (isLimited)
limit.coerceAtMost(10) else 10)\n do {\n result.add(substring(currentOffset, nextIndex))\n currentOffset
= nextIndex + delimiter.length\n // Do not search for next occurrence if we're reaching limit\n if (isLimited
&& result.size == limit - 1) break\n nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n } while
(nextIndex != -1)\n\n result.add(substring(currentOffset, length))\n return result\n}\n\n/**\n * Splits this char
sequence around matches of the given regular expression.\n *\n * @param limit Non-negative value specifying the
maximum number of substrings to return.\n * Zero by default means no limit is set.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> =
regex.split(this, limit)\n\n/**\n * Splits this char sequence to a sequence of lines delimited by any of the following
character sequences: CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n */\n\npublic fun CharSequence.lineSequence(): Sequence<String> = splitToSequence("\\r\\n", "\\n",
"\\r")\n\n/**\n * Splits this char sequence to a list of lines delimited by any of the following character sequences:
CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n */\n\npublic fun
CharSequence.lines(): List<String> = lineSequence().toList()\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n *
Converts the characters in the specified array to a string.\n *\n * @SinceKotlin("1.2")\n */\n@Deprecated("Use
CharArray.concatToString() instead", ReplaceWith("chars.concatToString()"))\npublic actual fun String(chars:
CharArray): String {\n var result = ""\n for (char in chars) {\n result += char\n }\n return
result\n}\n\n/**\n * Converts the characters from a portion of the specified array to a string.\n *\n * @throws
IndexOutOfBoundsException if either [offset] or [length] are less than zero\n * or `offset + length` is out of [chars]
array bounds.\n */\n@SinceKotlin("1.2")\n@Deprecated("Use CharArray.concatToString(startIndex, endIndex)
instead", ReplaceWith("chars.concatToString(offset, offset + length)"))\npublic actual fun String(chars:

```

```

CharArray, offset: Int, length: Int): String {\n if (offset < 0 || length < 0 || chars.size - offset < length)\n throw
IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")\n var result = ""\n for
(index in offset until offset + length) {\n result += chars[index]\n }\n return result}\n\n/**\n *
Concatenates characters in this [CharArray] into a String.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
CharArray.concatToString(): String {\n var result = ""\n for (char in this) {\n result += char\n }\n
return result}\n\n/**\n * Concatenates characters in this [CharArray] or its subrange into a String.\n * @param
startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\n * @param endIndex the end
(exclusive) of the subrange of characters, size of this array by default.\n * @throws
IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun CharArray.concatToString(startIndex: Int = 0,
endIndex: Int = this.size): String {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n var
result = ""\n for (index in startIndex until endIndex) {\n result += this[index]\n }\n return
result}\n\n/**\n * Returns a [CharArray] containing characters of this string.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
String.toCharArray(): CharArray {\n return CharArray(length) { get(it) }\n}\n\n/**\n * Returns a [CharArray]
containing characters of this string or its substring.\n * @param startIndex the beginning (inclusive) of the
substring, 0 by default.\n * @param endIndex the end (exclusive) of the substring, length of this string by default.\n
*\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length
of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int
= this.length): CharArray {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n return
CharArray(endIndex - startIndex) { get(startIndex + it) }\n}\n\n/**\n * Decodes a string from the bytes in UTF-8
encoding in this array.\n * @param Malformed byte sequences are replaced by the replacement char `\\uFFFD`.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
ByteArray.decodeToString(): String {\n return decodeUtf8(this, 0, size, false)\n}\n\n/**\n * Decodes a string from
the bytes in UTF-8 encoding in this array or its subrange.\n * @param startIndex the beginning (inclusive) of the
subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to decode, size of this
array by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed byte
sequence or replace it by the replacement char `\\uFFFD`.\n * @throws IndexOutOfBoundsException if
[startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws CharacterCodingException if the
byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun ByteArray.decodeToString(\n startIndex: Int = 0,\n endIndex: Int = this.size,\n throwOnInvalidSequence: Boolean = false): String {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n return decodeUtf8(this, startIndex, endIndex,
throwOnInvalidSequence)\n}\n\n/**\n * Encodes this string to an array of bytes in UTF-8 encoding.\n * @param Any
malformed char sequence is replaced by the replacement byte sequence.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
String.encodeToByteArray(): ByteArray {\n return encodeUtf8(this, 0, length, false)\n}\n\n/**\n * Encodes this
string or its substring to an array of bytes in UTF-8 encoding.\n * @param startIndex the beginning (inclusive)
of the substring to encode, 0 by default.\n * @param endIndex the end (exclusive) of the substring to encode, length
of this string by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on
malformed char sequence or replace.\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero

```



or [endIndex] is greater than the length of this string.\n \* @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n \* @throws CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\n

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.encodeToByteArray(\n startIndex: Int = 0,\n endIndex: Int = this.length,\n throwOnInvalidSequence: Boolean = false\n): ByteArray {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n return encodeUtf8(this, startIndex, endIndex,\n throwOnInvalidSequence)\n}\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the default locale.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toUpperCase(): String =\n asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string converted to upper case using Unicode mapping rules of the invariant locale.\n */\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n */\n * @sample\n samples.text.Strings.uppercase\n\n*\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic actual inline fun\nString.toUpperCase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string converted to lower case using the rules of the default locale.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun\nString.toLowerCase(): String = asDynamic().toLowerCase()\n\n/**\n * Returns a copy of this string converted to lower case using Unicode mapping rules of the invariant locale.\n */\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n */\n * @sample\n samples.text.Strings.lowercase\n\n*\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic actual inline fun\nString.toLowerCase(): String = asDynamic().toLowerCase()\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun\nString.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str,\n fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun\nString.nativeLastIndexOf(str: String,\n fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal inline fun\nString.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s,\n position)\n\n@kotlin.internal.InlineOnly\ninternal inline fun\nString.nativeEndsWith(s: String): Boolean =\n asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun\nString.substring(startIndex: Int):\nString = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun\nString.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex,\n endIndex)\n\n@kotlin.internal.InlineOnly\npublic inline fun\nString.concat(str: String): String =\n asDynamic().concat(str)\n\n@kotlin.internal.InlineOnly\npublic inline fun\nString.match(regex: String):\nArray<String>? = asDynamic().match(regex)\n\n//native public fun\nString.trim(): String\n\n//TODO: String.replace to implement effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\ninternal inline fun\nString.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern,\n replacement)\n\n@OptIn(ExperimentalStdlibApi::class)\n@SinceKotlin("1.2")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun\nString.compareTo(other: String, ignoreCase: Boolean = false): Int {\n if (ignoreCase) {\n val n1 = this.length\n val n2 = other.length\n val min = minOf(n1, n2)\n if (min == 0) return n1 - n2\n var start = 0\n while (true) {\n val end = minOf(start + 16, min)\n var s1 = this.substring(start, end)\n var s2 = other.substring(start, end)\n if (s1 != s2) {\n s1 = s1.toUpperCase()\n s2 = s2.toUpperCase()\n if (s1 != s2) {\n s1 = s1.toLowerCase()\n s2 = s2.toLowerCase()\n if (s1 != s2) {\n return\n }\n }\n }\n if (end == min) break\n start = end\n }\n return n1 - n2\n } else {\n return compareTo(other)\n }\n}\n\nprivate val\nSTRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }\n\n@SinceKotlin("1.2")\npublic actual val\nString.Companion.CASE_INSENSITIVE_ORDER:\nComparator<String>\n get() = STRING_CASE_INSENSITIVE_ORDER\n\n"/*\n * Copyright 2010-2020\n JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the

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```

Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
UByteArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@Published
Api\ninternal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\n\n /** Creates
a new array of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(ByteArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called
using the index operator.\n *\n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun get(index: Int): UByte = storage[index].toUByte()\n\n /**\n * Sets the element at the given [index]
to the given [value]. This method can be called using the index operator.\n *\n * If the [index] is out of bounds
of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is
unspecified.\n *\n public operator fun set(index: Int, value: UByte) {\n storage[index] = value.toByte()\n
}\n\n /** Returns the number of elements in the array. *\n public override val size: Int get() = storage.size\n\n
/** Creates an iterator over the elements of the array. *\n public override operator fun iterator(): UByteIterator =
Iterator(storage)\n\n private class Iterator(private val array: ByteArray) : UByteIterator() {\n private var index
= 0\n override fun hasNext() = index < array.size\n override fun nextUByte() = if (index < array.size)
array[index++].toUByte() else throw NoSuchElementException(index.toString())\n }\n\n override fun
contains(element: UByte): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n //
Currently JS BE does not generate special bridge method for this method.\n
@Suppress("USELESS_CAST")\n if ((element as Any?) !is UByte) return false\n\n return
storage.contains(element.toByte())\n }\n\n override fun containsAll(elements: Collection<UByte>): Boolean {\n
return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\n }\n\n override fun
isEmpty(): Boolean = this.storage.size == 0\n\n/**\n * Creates a new array of the specified [size], where each
element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each array
element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n return UByteArray(ByteArray(size) { index ->
init(index).toByte()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ubyteArrayOf(vararg elements: UByte): UByteArray = elements\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
UIntArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@PublishedAp
i\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {\n\n /** Creates a new
array of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(IntArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called using
the index operator.\n *\n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun get(index: Int): UInt = storage[index].toInt()\n\n /**\n * Sets the element at the given [index] to
the given [value]. This method can be called using the index operator.\n *\n * If the [index] is out of bounds of
this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n public operator fun set(index: Int, value: UInt) {\n storage[index] = value.toInt()\n }\n\n /** Returns
the number of elements in the array. *\n public override val size: Int get() = storage.size\n\n /** Creates an
iterator over the elements of the array. *\n public override operator fun iterator(): UIntIterator =
Iterator(storage)\n\n private class Iterator(private val array: IntArray) : UIntIterator() {\n private var index =
0\n override fun hasNext() = index < array.size\n override fun nextUInt() = if (index < array.size)
array[index++].toInt() else throw NoSuchElementException(index.toString())\n }\n\n override fun

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Api\ninternal constructor(@PublishedApi internal val storage: ShortArray) : Collection<UShort> {\n\n /**
Creates a new array of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(ShortArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called
using the index operator.\n * \n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsExcpetion] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun get(index: Int): UShort = storage[index].toUShort()\n\n /**\n * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n * \n * If the [index] is out of
bounds of this array, throws an [IndexOutOfBoundsExcpetion] except in Kotlin/JS\n * where the behavior is
unspecified.\n *\n public operator fun set(index: Int, value: UShort) {\n storage[index] = value.toShort()\n
}\n\n /** Returns the number of elements in the array. *\n public override val size: Int get() = storage.size\n\n
/** Creates an iterator over the elements of the array. *\n public override operator fun iterator(): UShortIterator =
Iterator(storage)\n\n private class Iterator(private val array: ShortArray) : UShortIterator() {\n private var
index = 0\n override fun hasNext() = index < array.size\n override fun nextUShort() = if (index <
array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())\n }\n\n override
fun contains(element: UShort): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n //
Currently JS BE does not generate special bridge method for this method.\n
@Suppress("USELESS_CAST")\n if ((element as Any?) !is UShort) return false\n\n return
storage.contains(element.toShort())\n }\n\n override fun containsAll(elements: Collection<UShort>): Boolean
{\n return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }\n }\n\n override
fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each
element is calculated by calling the specified\n * [init] function.\n * \n * The function [init] is called for each array
element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n return UShortArray(ShortArray(size) { index ->
init(index).toShort()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ushortArrayOf(vararg elements: UShort): UShortArray = elements\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UArraysKt")\n@file:kotlin.jvm.JvmPacka
geName("kotlin.collections.unsigned")\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-
GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the
size of this array is less than 1, throws an [IndexOutOfBoundsExcpetion] except in Kotlin/JS\n * where the behavior
is unspecified.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun UIntArray.component1(): UInt {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the
array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsExcpetion] except in Kotlin/JS\n
* where the behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component1(): ULong {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n *
If the size of this array is less than 1, throws an [IndexOutOfBoundsExcpetion] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component1(): UByte {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If
the size of this array is less than 1, throws an [IndexOutOfBoundsExcpetion] except in Kotlin/JS\n * where the
behavior is unspecified.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun

```

UShortArray.component1(): UShort { \n return get(0)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UIntArray.component2(): UInt { \n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

ULongArray.component2(): ULong { \n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UByteArray.component2(): UByte { \n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UShortArray.component2(): UShort { \n return get(1)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UIntArray.component3(): UInt { \n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

ULongArray.component3(): ULong { \n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UByteArray.component3(): UByte { \n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UShortArray.component3(): UShort { \n return get(2)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \*  
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UIntArray.component4(): UInt { \n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \*  
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

ULongArray.component4(): ULong { \n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \*  
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UByteArray.component4(): UByte { \n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \*  
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
```

UShortArray.component4(): UShort { \n return get(3)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \*

If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component5(): UInt {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component5(): ULong {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component5(): UByte {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n */
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component5(): UShort {\n return get(4)\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int):
UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int):
ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int):
UByte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int):
UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or
```

```

`null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrNull(index: Int): UInt? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrNull(index: Int): ULong? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrNull(index: Int): UByte? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrNull(index: Int): UShort? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns
the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n return firstOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n return lastOrNull(predicate)\n}\n\n/**\n *

```

Returns first element.\n \* @throws [NoSuchElementException] if the array is empty.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(): UInt {\n return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(): ULong {\n return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(): UByte {\n return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(): UShort {\n return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching
the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n return
if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.firstOrNull(): ULong? {\n return
if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.firstOrNull(): UByte? {\n return
if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.firstOrNull(): UShort? {\n return
if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null`
if element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n for (element in this) if (predicate(element)) return
element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element
was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n for (element in this) if
(predicate(element)) return element\n return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n
*\n
```



```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n for (element in this) if (predicate(element))
return element\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n for (element in this) if (predicate(element))
return element\n return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int):
ULong? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte?
{\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int):
UShort? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOf(element: UInt): Int {\n return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first
index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.indexOf(element: ULong): Int {\n return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOf(element: UByte): Int {\n return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOf(element: UShort): Int {\n return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns
index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n return storage.indexOfFirst { predicate(it.toUInt())
}\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain
such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n return storage.indexOfLast { predicate(it.toUInt())
}\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain
such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n return storage.indexOfLast {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n return storage.indexOfLast {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n return storage.indexOfLast {
predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the
array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(): UInt {\n return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * \n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(): ULong {\n return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(): UByte {\n return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(): UShort {\n return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching
the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n for (index in this.indices.reversed()) {\n val element =
this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains
no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n *
@throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
*\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
*\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns last index
of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastIndexOf(element: UInt): Int {\n return storage.lastIndexOf(element.toInt())\n}\n\n/**\n * Returns
last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastIndexOf(element: ULong): Int {\n return storage.lastIndexOf(element.toLong())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastIndexOf(element: UByte): Int {\n return storage.lastIndexOf(element.toByte())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastIndexOf(element: UShort): Int {\n return storage.lastIndexOf(element.toShort())\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.lastOrNull(): UInt? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.lastOrNull(): UShort? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or
`null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a
random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.random(): UInt {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n
* \n * @throws NoSuchElementException if this array is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.random(): ULong {\n return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.random(): UByte {\n return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.random(): UShort {\n return random(Random)\n}\n\n/**\n * Returns a random element from this
array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt
{\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):
ULong {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random):
UByte {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random):
UShort {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.randomOrNull(): UInt? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*/\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.randomOrNull(): ULong? {\n return\n randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.randomOrNull(): UByte? {\n return\n randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.randomOrNull(): UShort? {\n return\n randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of\n * randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\npublic fun UIntArray.randomOrNull(random: Random): UInt? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of\n * randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\npublic fun ULongArray.randomOrNull(random: Random): ULong? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of\n * randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\npublic fun UByteArray.randomOrNull(random: Random): UByte? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of\n * randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\npublic fun UShortArray.randomOrNull(random: Random): UShort? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or\n * has more than one element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.single(): UInt {\n return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an\n * exception if the array is empty or has more than one element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.single(): ULong {\n return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or\n * throws an exception if the array is empty or has more than one element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.single(): UByte {\n return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or\n * throws an exception if the array is empty or has more than one element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.single(): UShort {\n return storage.single().toUShort()\n}\n\n/**\n * Returns the single element\n * matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.single(predicate: (UInt) -> Boolean): UInt {\n var single: UInt? = null\n var found = false\n for\n (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException("Array\n contains more than one matching element.")\n single = element\n found = true\n }\n }\n if\n (!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as UInt\n}\n\n/**\n * Returns the single element matching\n * the given [predicate], or throws exception if there is no or more than one matching element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.single(predicate: (ULong) -> Boolean): ULong {\n var single: ULong? = null\n var found = false\n for\n (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException("Array

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contains more than one matching element.}")\n single = element\n found = true\n }\n }\n if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n
@Suppress("UNCHECKED_CAST")\n return single as ULong\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n var single: UByte? = null\n var found = false\n
for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException("Array
contains more than one matching element.>")\n single = element\n found = true\n }\n }\n if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n
@Suppress("UNCHECKED_CAST")\n return single as UByte\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n var single: UShort? = null\n var found = false\n
for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException("Array
contains more than one matching element.>")\n single = element\n found = true\n }\n }\n if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n
@Suppress("UNCHECKED_CAST")\n return single as UShort\n}\n\n/**\n * Returns single element, or `null` if
the array is empty or has more than one element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.singleOrNull(): ULong? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.singleOrNull(): UByte? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.singleOrNull(): UShort? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single
element matching the given [predicate], or `null` if element was not found or more than one element was found.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {\n var single: UInt? = null\n var found = false\n
for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n
found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element
matching the given [predicate], or `null` if element was not found or more than one element was found.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n var single: ULong? = null\n var found
= false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single =
element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n var single: UByte? = null\n var found
= false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single =
element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n var single: UShort? = null\n var
found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single
= element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a list
containing all elements except first [n] elements.\n
*\n * @throws IllegalArgumentException if [n] is negative.\n
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\n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int):
List<ULong> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int):
List<UShort> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n for (index in lastIndex downTo 0)
{\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n**\n

```

\* Returns a list containing all elements except last elements that satisfy the given [predicate].\n \* \n \* @sample samples.collections.Collections.Transformations.drop\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n for (index in lastIndex downTo 0)
{\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n
```

\* Returns a list containing all elements except last elements that satisfy the given [predicate].\n \* \n \* @sample samples.collections.Collections.Transformations.drop\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n for (index in lastIndex downTo 0)
{\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return
emptyList()\n}\n\n/**\n
```

\* Returns a list containing all elements except first elements that satisfy the given [predicate].\n \* \n \* @sample samples.collections.Collections.Transformations.drop\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n var yielding = false\n val list =
ArrayList<UInt>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n
 list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n
```

\* Returns a list containing all elements except first elements that satisfy the given [predicate].\n \* \n \* @sample samples.collections.Collections.Transformations.drop\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n var yielding = false\n val list =
ArrayList<ULong>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item))
{\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n
```

\* Returns a list containing all elements except first elements that satisfy the given [predicate].\n \* \n \* @sample samples.collections.Collections.Transformations.drop\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n var yielding = false\n val list =
ArrayList<UByte>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item))
{\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n
```

\* Returns a list containing all elements except first elements that satisfy the given [predicate].\n \* \n \* @sample samples.collections.Collections.Transformations.drop\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n var yielding = false\n val list =
ArrayList<UShort>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item))
{\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n
```

\* Returns a list containing only elements matching the given [predicate].\n \* \n \* @sample samples.collections.Collections.Filtering.filter\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n return filterTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n
```

\* Returns a list containing only elements matching the given [predicate].\n \* \n \* @sample samples.collections.Collections.Filtering.filter\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n return filterTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n
```

\* Returns a list containing only elements matching the given [predicate].\n \* \n \* @sample samples.collections.Collections.Filtering.filter\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n return filterTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n
```

\* Returns a list containing only elements matching the given [predicate].\n \* \n \* @sample samples.collections.Collections.Filtering.filter\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```



```

UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {
 return filterTo(ArrayList<UShort>(),
predicate)\n}\n\n/**
 * Returns a list containing only elements matching the given [predicate].
 * @param
 [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate
 evaluation on the element.
 * \n * @sample samples.collections.Collections.Filtering.filterIndexed
 *
 * \n @SinceKotlin("1.3")
 * \n @ExperimentalUnsignedTypes
 * \n @kotlin.internal.InlineOnly
 * \n public inline fun
 UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {
 return
filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**
 * Returns a list containing only elements matching the
 given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and
 returns the result of predicate evaluation on the element.
 * \n * @sample
 samples.collections.Collections.Filtering.filterIndexed
 *
 * \n @SinceKotlin("1.3")
 * \n @ExperimentalUnsignedTypes
 * \n @kotlin.internal.InlineOnly
 * \n public inline fun
 ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {
 return
filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**
 * Returns a list containing only elements matching the
 given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and
 returns the result of predicate evaluation on the element.
 * \n * @sample
 samples.collections.Collections.Filtering.filterIndexed
 *
 * \n @SinceKotlin("1.3")
 * \n @ExperimentalUnsignedTypes
 * \n @kotlin.internal.InlineOnly
 * \n public inline fun
 UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {
 return
filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**
 * Returns a list containing only elements matching the
 given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and
 returns the result of predicate evaluation on the element.
 * \n * @sample
 samples.collections.Collections.Filtering.filterIndexed
 *
 * \n @SinceKotlin("1.3")
 * \n @ExperimentalUnsignedTypes
 * \n @kotlin.internal.InlineOnly
 * \n public inline fun
 UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {
 return
filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**
 * Appends all elements matching the given [predicate]
 to the given [destination].
 * @param [predicate] function that takes the index of an element and the element
 itself
 * and returns the result of predicate evaluation on the element.
 * \n * @sample
 samples.collections.Collections.Filtering.filterIndexedTo
 *
 * \n @SinceKotlin("1.3")
 * \n @ExperimentalUnsignedTypes
 * \n @kotlin.internal.InlineOnly
 * \n public inline fun <C :
 MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C {
 \n forEachIndexed { index, element ->
 \n if (predicate(index, element)) destination.add(element)
 }
 \n return destination
}\n\n/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * \n *
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of
 predicate evaluation on the element.
 * \n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo
 *
 * \n @SinceKotlin("1.3")
 * \n @ExperimentalUnsignedTypes
 * \n @kotlin.internal.InlineOnly
 * \n public inline fun <C :
 MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) ->
 Boolean): C {
 \n forEachIndexed { index, element ->
 \n if (predicate(index, element))
destination.add(element)
 }
 \n return destination
}\n\n/**
 * Appends all elements matching the given
 [predicate] to the given [destination].
 * \n * @param [predicate] function that takes the index of an element and the
 element itself
 * and returns the result of predicate evaluation on the element.
 * \n * \n * @sample
 samples.collections.Collections.Filtering.filterIndexedTo
 *
 * \n @SinceKotlin("1.3")
 * \n @ExperimentalUnsignedTypes
 * \n @kotlin.internal.InlineOnly
 * \n public inline fun <C :
 MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) ->
 Boolean): C {
 \n forEachIndexed { index, element ->
 \n if (predicate(index, element))
destination.add(element)
 }
 \n return destination
}\n\n/**
 * Appends all elements matching the given
 [predicate] to the given [destination].
 * \n * @param [predicate] function that takes the index of an element and the
 element itself
 * and returns the result of predicate evaluation on the element.
 * \n * \n * @sample
 samples.collections.Collections.Filtering.filterIndexedTo

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) ->
Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n return destination\n}\n\n/**\n * Returns a list containing all elements not
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n return filterNotTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n return filterNotTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n return filterNotTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n return
filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {\n for
(element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {\n for
(element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends
all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n for
(element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n for
(element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n for (element
in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n for

```

```

(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange):
List<UInt> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange):
List<ULong> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange):
List<UByte> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange):
List<UShort> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: Iterable<Int>):
List<UInt> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UInt>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>):
List<ULong> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<ULong>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>):
List<UByte> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UByte>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>):
List<UShort> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UShort>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n *
Returns an array containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices:
Collection<Int>): UIntArray {\n return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices:
Collection<Int>): ULongArray {\n return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices:
Collection<Int>): UByteArray {\n return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n

```

containing elements of this array at specified [indices].\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices:
Collection<Int>): UShortArray {\n return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an
array containing elements at indices in the specified [indices] range.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: IntRange):
UIntArray {\n return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at
indices in the specified [indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.sliceArray(indices: IntRange): ULongArray {\n return
ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the
specified [indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
```

```
UByteArray.sliceArray(indices: IntRange): UByteArray {\n return
UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the
specified [indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
```

```
UShortArray.sliceArray(indices: IntRange): UShortArray {\n return
UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.take\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.take(n: Int): List<UInt> {\n require(n >= 0) { "Requested element count $n is less than zero." }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<UInt>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.take(n: Int): List<ULong> {\n require(n >= 0) { "Requested element count $n is less than zero." }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<ULong>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n require(n >= 0) { "Requested element count $n is less than zero." }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<UByte>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n require(n >= 0) { "Requested element count $n is less than zero." }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<UShort>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing last [n] elements.\n * \n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.takeLast(n: Int): List<UInt> {\n require(n >= 0) { "Requested element count $n is less than zero." }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<UInt>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong>
```

```

{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<ULong>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<UByte>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<UShort>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index]))\n return drop(index + 1)\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index]))\n return drop(index + 1)\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index]))\n return drop(index + 1)\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index]))\n return drop(index + 1)\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n val list = ArrayList<UInt>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n val list = ArrayList<ULong>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n val list = ArrayList<UByte>()\n for\n (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\nReturns a list containing first elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n val list = ArrayList<UShort>()\n for\n (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\nReverses elements in the array in-place.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.reverse(): Unit {\n storage.reverse()\n}\n\nReverses elements in the array in-place.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.reverse(): Unit {\n storage.reverse()\n}\n\nReverses elements in the array in-place.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.reverse(): Unit {\n storage.reverse()\n}\n\nReverses elements in the array in-place.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\nReverses elements of the array in the specified\n range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end\n of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero\n or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater\n than [toIndex].\n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex,\n toIndex)\n}\n\nReverses elements of the array in the specified range in-place.\n * \n * @param fromIndex\n the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this\n array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\nReverses elements\n of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range\n (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws\n IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\nReverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range\n (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws\n IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\nReturns a list with elements in reversed order.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic\n fun UIntArray.reversed(): List<UInt> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\nReturns a list with elements in reversed order.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\nULongArray.reversed(): List<ULong> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\nReturns\n a list with elements in reversed order.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\nUByteArray.reversed(): List<UByte> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\nReturns a list with elements in reversed order.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\nUShortArray.reversed(): List<UShort> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\nReturns a list with elements in reversed order.

```

```

if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns
an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reversedArray(): UIntArray {\n return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an
array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reversedArray(): ULongArray {\n return ULongArray(storage.reversedArray())\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reversedArray(): UByteArray {\n return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns
an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reversedArray(): UShortArray {\n return UShortArray(storage.reversedArray())\n}\n\n/**\n *
Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random]
instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(random: Random): Unit
{\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their
natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements
in the array in-place descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements
in the array in-place descending according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun

```





descending according to their natural sort order.  
 \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

fun UShortArray.sortedDescending(): List<UShort> {
 return copyOf().apply { sort() }.reversed()
}

```

Returns an array of type `[ByteArray]`, which is a view of this array where each element is a signed reinterpretation of the corresponding element of this array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UByteArray.asByteArray(): ByteArray {
 return storage
}

```

Returns an array of type `[IntArray]`, which is a view of this array where each element is a signed reinterpretation of the corresponding element of this array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray.asIntArray(): IntArray {
 return storage
}

```

Returns a `[List]` that wraps the original array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UIntArray.asList():
List<UInt>

```

Returns a `[List]` that wraps the original array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun ULongArray.asList():
List<ULong>

```

Returns a `[List]` that wraps the original array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UByteArray.asList():
List<UByte>

```

Returns a `[List]` that wraps the original array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public expect fun UShortArray.asList():
List<UShort>

```

Returns an array of type `[LongArray]`, which is a view of this array where each element is a signed reinterpretation of the corresponding element of this array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.asLongArray(): LongArray {
 return storage
}

```

Returns an array of type `[ShortArray]`, which is a view of this array where each element is a signed reinterpretation of the corresponding element of this array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.asShortArray(): ShortArray {
 return storage
}

```

Returns an array of type `[UByteArray]`, which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ByteArray.asUByteArray(): UByteArray {
 return UByteArray(this)
}

```

Returns an array of type `[UIIntArray]`, which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
IntArray.asUIIntArray(): UIIntArray {
 return UIIntArray(this)
}

```

Returns an array of type `[ULongArray]`, which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
LongArray.asULongArray(): ULongArray {
 return ULongArray(this)
}

```

Returns an array of type `[UShortArray]`, which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ShortArray.asUShortArray(): UShortArray {
 return UShortArray(this)
}

```

Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

```

@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince =
"1.4")
@ExperimentalUnsignedTypes
public infix fun UIntArray.contentEquals(other: UIntArray): Boolean {
 return this.contentEquals(other)
}

```

Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

```

@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince =
"1.4")
@ExperimentalUnsignedTypes
public infix fun ULongArray.contentEquals(other: ULongArray):

```

```

Boolean {
 return this.contentEquals(other)
}

/**
 * Returns `true` if the two specified arrays are
 structurally equal to one another,
 * i.e. contain the same number of the same elements in the same order.
 */
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince =
"1.4")
@ExperimentalUnsignedTypes
public infix fun UByteArray.contentEquals(other: UByteArray): Boolean
{
 return this.contentEquals(other)
}

/**
 * Returns `true` if the two specified arrays are
 structurally equal
 to one another,
 * i.e. contain the same number of the same elements in the same order.
 */
@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince =
"1.4")
@ExperimentalUnsignedTypes
public infix fun UShortArray.contentEquals(other: UShortArray):
Boolean
{
 return this.contentEquals(other)
}

/**
 * Returns `true` if the two specified arrays are
 structurally equal
 to one another,
 * i.e. contain the same number of the same elements in the
 same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun UIntArray?.contentEquals(other:
UIntArray?): Boolean
{
 return this?.storage?.contentEquals(other?.storage)
}

/**
 * Returns `true` if the two
 specified arrays are
 structurally equal to one another,
 * i.e. contain the same number of the same elements in the
 same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun
ULongArray?.contentEquals(other: ULongArray?): Boolean
{
 return
this?.storage?.contentEquals(other?.storage)
}

/**
 * Returns `true` if the two specified arrays are
 structurally
 equal to one another,
 * i.e. contain the same number of the same elements in the same
 order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun UByteArray?.contentEquals(other:
UByteArray?): Boolean
{
 return this?.storage?.contentEquals(other?.storage)
}

/**
 * Returns `true` if the
 two specified arrays are
 structurally equal to one another,
 * i.e. contain the same number of the same elements
 in the same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun
UShortArray?.contentEquals(other: UShortArray?): Boolean
{
 return
this?.storage?.contentEquals(other?.storage)
}

/**
 * Returns a hash code based on the contents of this array as
 if it is [List].
 */
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince =
"1.4")
@ExperimentalUnsignedTypes
public fun UIntArray.contentHashCode(): Int
{
 return
this.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince =
"1.4")
@ExperimentalUnsignedTypes
public fun ULongArray.contentHashCode(): Int
{
 return
this.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince =
"1.4")
@ExperimentalUnsignedTypes
public fun UByteArray.contentHashCode(): Int
{
 return
this.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.3")
@DeprecatedSinceKotlin(hiddenSince =
"1.4")
@ExperimentalUnsignedTypes
public fun UShortArray.contentHashCode(): Int
{
 return
this.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UIntArray?.contentHashCode(): Int
{
 return this?.storage?.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it
 is [List].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun
ULongArray?.contentHashCode(): Int
{
 return this?.storage?.contentHashCode()
}

/**
 * Returns a hash
 code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UByteArray?.contentHashCode(): Int
{
 return this?.storage?.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it

```

```

is [List].\n * \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n public fun
UShortArray?.contentHashCode(): Int {\n return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n * \n @Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.")\n @SinceKotlin("1.3")\n @DeprecatedSinceKotlin(hiddenSince =
"1.4")\n @ExperimentalUnsignedTypes\n public fun UIntArray.contentToString(): String {\n return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n * \n @Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n @SinceKotlin("1.3")\n @DeprecatedSinceKotlin(hiddenSince =
"1.4")\n @ExperimentalUnsignedTypes\n public fun ULongArray.contentToString(): String {\n return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n * \n @Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n @SinceKotlin("1.3")\n @DeprecatedSinceKotlin(hiddenSince =
"1.4")\n @ExperimentalUnsignedTypes\n public fun UByteArray.contentToString(): String {\n return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n * \n @Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n @SinceKotlin("1.3")\n @DeprecatedSinceKotlin(hiddenSince =
"1.4")\n @ExperimentalUnsignedTypes\n public fun UShortArray.contentToString(): String {\n return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n * \n @Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n public fun UIntArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n * \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n public fun ULongArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n * \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n public fun UByteArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n * \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n public fun UShortArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Copies this array or its subrange into the
[destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even
specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy
to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param
startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive)
of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *
\n * @return the [destination] array.\n
\n * \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):

```



\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(): UShortArray {\n return UShortArray(storage.copyOf())\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(newSize: Int): UIntArray {\n return UIntArray(storage.copyOf(newSize))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOf(newSize: Int): ULongArray {\n return ULongArray(storage.copyOf(newSize))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOf(newSize: Int): UByteArray {\n return UByteArray(storage.copyOf(newSize))\n}\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(newSize: Int, fromIndex: Int, toIndex: Int): UShortArray {\n return UShortArray(storage.copyOf(newSize, fromIndex, toIndex))\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n return UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n return ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n return UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* @param fromIndex the start of the range (inclusive) to copy.\n

```

@param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n return
UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n *
@param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex:
Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array
or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to
fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n *
@param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n *
Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n *
Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n *
Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n get()
= storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n
 get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n
 get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n
 get() = storage.indices\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n get() =
storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline

```

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operator fun UIntArray.plus(element: UInt): UIntArray {
 return UIntArray(storage +
 element.toInt())
}
/**
 * Returns an array containing all elements of the original array and then the given
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun ULongArray.plus(element: ULong): ULongArray {
 return ULongArray(storage +
 element.toLong())
}
/**
 * Returns an array containing all elements of the original array and then the given
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun UByteArray.plus(element: UByte): UByteArray {
 return UByteArray(storage +
 element.toByte())
}
/**
 * Returns an array containing all elements of the original array and then the given
 * [element].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun UShortArray.plus(element: UShort): UShortArray {
 return UShortArray(storage +
 element.toShort())
}
/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator
fun UIntArray.plus(elements: Collection<UInt>): UIntArray {
 var index = size
 val result =
 storage.copyOf(size + elements.size)
 for (element in elements) result[index++] = element.toInt()
 return
 UIntArray(result)
}
/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator
fun ULongArray.plus(elements: Collection<ULong>): ULongArray {
 var index = size
 val result =
 storage.copyOf(size + elements.size)
 for (element in elements) result[index++] = element.toLong()
 return
 ULongArray(result)
}
/**
 * Returns an array containing all elements of the original array and then all
 * elements of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator
fun UByteArray.plus(elements: Collection<UByte>): UByteArray {
 var index = size
 val result =
 storage.copyOf(size + elements.size)
 for (element in elements) result[index++] = element.toByte()
 return
 UByteArray(result)
}
/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator
fun UShortArray.plus(elements: Collection<UShort>): UShortArray {
 var index = size
 val result =
 storage.copyOf(size + elements.size)
 for (element in elements) result[index++] = element.toShort()
 return
 UShortArray(result)
}
/**
 * Returns an array containing all elements of the original array and then all
 * elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun
UIntArray.plus(elements: UIntArray): UIntArray {
 return UIntArray(storage + elements.storage)
}
/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun
ULongArray.plus(elements: ULongArray): ULongArray {
 return ULongArray(storage +
 elements.storage)
}
/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun
UByteArray.plus(elements: UByteArray): UByteArray {
 return UByteArray(storage +
 elements.storage)
}
/**
 * Returns an array containing all elements of the original array and then all elements
 * of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun
UShortArray.plus(elements: UShortArray): UShortArray {
 return UShortArray(storage +
 elements.storage)
}
/**
 * Sorts the array in-place.
 */
@sample
samples.collections.Arrays.Sorting.sortArray
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UIntArray.sort(): Unit {
 if (size > 1) sortArray(this, 0, size)
}
/**
 * Sorts the array in-place.
 */
@sample
samples.collections.Arrays.Sorting.sortArray
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
ULongArray.sort(): Unit {
 if (size > 1)
 sortArray(this, 0, size)
}
/**
 * Sorts the array in-place.
 */
@sample
samples.collections.Arrays.Sorting.sortArray
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public

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fun UByteArray.sort(): Unit { \n if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n *

@sample samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit { \n if (size > 1)

sortArray(this, 0, size)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the

range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array

by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater

than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *

@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(fromIndex: Int = 0, toIndex:

Int = size): Unit { \n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this, fromIndex,

toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range

(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by

default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than

the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *

@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(fromIndex: Int = 0,

toIndex: Int = size): Unit { \n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this,

fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the

range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array

by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater

than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *

@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(fromIndex: Int = 0,

toIndex: Int = size): Unit { \n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this,

fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the

range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array

by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater

than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *

@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(fromIndex: Int = 0,

toIndex: Int = size): Unit { \n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this,

fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are

sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive)

to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException

if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws

IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(fromIndex: Int,

toIndex: Int): Unit { \n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of

the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort

order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range

(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is

greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(fromIndex:

Int, toIndex: Int): Unit { \n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements

of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort

order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range

(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is

greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns an
array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.toByteArray(): ByteArray {\n return storage.copyOf()\n}\n\n/**\n * Returns an array of type
[IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding
element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.toIntArray(): IntArray {\n return storage.copyOf()\n}\n\n/**\n * Returns an array of type [LongArray],
which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.toLongArray(): LongArray {\n return storage.copyOf()\n}\n\n/**\n * Returns an array of type
[ShortArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding
element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.toShortArray(): ShortArray {\n return storage.copyOf()\n}\n\n/**\n * Returns a *typed* object array
containing all of the elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.toTypedArray(): Array<UInt>
{\n return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the
elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.toTypedArray(): Array<ULong> {\n return Array(size) { index -> this[index] }\n}\n\n/**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.toTypedArray():
Array<UByte> {\n return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array
containing all of the elements of this primitive array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.toTypedArray():
Array<UShort> {\n return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of UByte containing
all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Array<out UByte>.toUByteArray(): UByteArray {\n return UByteArray(size) { index -> this[index] }\n}\n\n/**\n
* Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned
reinterpretation\n * of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.toUByteArray(): UByteArray {\n return UByteArray(this.copyOf())\n}\n\n/**\n * Returns an array of
UInt containing all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.toUIntArray(): UIntArray
{\n return UIntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UIntArray], which is a
copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.toUIntArray(): UIntArray {\n return UIntArray(this.copyOf())\n}\n\n/**\n * Returns an array of ULong
containing all of the elements of this generic array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.toULongArray():

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ULongArray {\n return ULongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [ULongArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.toULongArray(): ULongArray {\n return ULongArray(this.copyOf())\n}\n\n/**\n * Returns an array of UShort containing all of the elements of this generic array.\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.toUShortArray(): UShortArray {\n return UShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UShortArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.toUShortArray(): UShortArray {\n return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {\n val result = LinkedHashMap<UInt, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V> {\n val result = LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {\n val result = LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UShortArray.associateWith(valueSelector: (UShort) -> V): Map<UShort, V> {\n val result = LinkedHashMap<UShort, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n *

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where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n \* \n \* If any two elements are equal, the last one overwrites the former value in the map.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWithTo\n

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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination: M, valueSelector: (ULong) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination: M, valueSelector: (UShort) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {\n return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
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@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.flatMapIndexed(transform: (index: Int, ULong) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) ->
Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n
destination.addAll(list)\n }\n return destination\n}\n\n**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) ->
Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n
destination.addAll(list)\n }\n return destination\n}\n\n**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) ->
Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n
destination.addAll(list)\n }\n return destination\n}\n\n**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) ->
Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n
destination.addAll(list)\n }\n return destination\n}\n\n**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n for

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UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to
the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<UInt>>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n
for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<UInt>() }\n list.add(element)\n } \n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<ULong>>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K):
M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<ULong>() }\n list.add(element)\n } \n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<UByte>>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K):
M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<UByte>() }\n list.add(element)\n } \n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the

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[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K):
M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<UShort>() }\n list.add(element)\n }\n return destination}\n\n/**\n * Groups values returned by
the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K,
valueTransform: (UInt) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K,
valueTransform: (ULong) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list
= destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K,
valueTransform: (UByte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list
= destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K,
valueTransform: (UShort) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list
= destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element in the original
array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.map(transform: (ULong) -> R): List<R> {\n return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.map(transform: (UByte) -> R): List<R> {\n return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.map(transform: (UShort) -> R): List<R> {\n return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element and its index in the original array.\n * @param [transform] function that takes the index of an element and
the element itself\n * and returns the result of the transform applied to the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original array\n * and appends the results to the given [destination].\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n var
index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n *
Applies the given [transform] function to each element and its index in the original array\n * and appends the results
to the given [destination].\n * @param [transform] function that takes the index of an element and the element
itself\n * and returns the result of the transform applied to the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n var
index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n
* and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {\n var
index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n
* and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n

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*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n
var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n for (item in
this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {\n for (item in
this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps
each element of the original array\n * into an [IndexedValue] containing the index of that element and the element
itself.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UIntArray.withIndex():
Iterable<IndexedValue<UInt>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.withIndex():
Iterable<IndexedValue<ULong>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.withIndex():
Iterable<IndexedValue<UByte>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.withIndex():
Iterable<IndexedValue<UShort>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all
elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.all(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample

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samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(): Boolean {\n return storage.any()\n}\n\n/**\n * Returns `true` if at least one element matches
the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n
return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
true\n return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.count(predicate: (UInt) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator
value and an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n var accumulator = initial\n for (element in this)
accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
*\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes

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current accumulator value and an element, and calculates the next accumulator value.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n var index = lastIndex\n var accumulator =
initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n var index = lastIndex\n var
accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n var index = lastIndex\n var
accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator value.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n var index = lastIndex\n var
accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n var index = lastIndex\n
var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n
--index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
value.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n var index =
lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n var index =
lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current

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accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n var index =
lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each
element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEach(action: (ULong) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEach(action: (UByte) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEach(action: (UShort) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element, providing sequential index with the element.\n * @param [action]
function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.max(): UInt? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max(): ULong? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max(): UByte? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince =

```

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`1.4`)@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.max(): UShort? {\n
return maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.")\n
ReplaceWith("this.maxByOrNull(selector)")@DeprecatedSinceKotlin(warningSince =
`1.4`)@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.")\n
ReplaceWith("this.maxByOrNull(selector)")@DeprecatedSinceKotlin(warningSince =
`1.4`)@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n return
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<R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxByOrNull(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxVal =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxVal < v)
{\n maxElem = e\n maxVal = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
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*/\n\n@SinceKotlin("1.4")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n
var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxVal =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxVal < v)
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Comparable<R>> UShortArray.maxByOrNull(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n
var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxVal =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxVal < v)
{\n maxElem = e\n maxVal = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the largest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOf(selector: (ULong) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the
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/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
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ULongArray.maxOf(selector: (ULong) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
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UByteArray.maxOf(selector: (UByte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced

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by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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UShortArray.maxOf(selector: (UShort) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
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Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxOf(selector: (ULong) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n**\n *
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selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n**\n *
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n
}\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n *
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ULongArray.maxOfOrNull(selector: (ULong) -> Double): Double? {\n if (isEmpty()) return null\n var

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maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.maxOfOrNull(selector: (UByte) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue,
v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
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UShortArray.maxOfOrNull(selector: (UShort) -> Double): Double? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
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UIntArray.maxOfOrNull(selector: (UInt) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue =
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maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxOfOrNull(selector: (ULong) -> R): R? {\n if (isEmpty()) return null\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxOfOrNull(selector: (UByte) -> R): R? {\n if (isEmpty()) return null\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values\n produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxOfOrNull(selector: (UShort) -> R): R? {\n if (isEmpty()) return null\n var\n maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the\n provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.maxOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array.\n * @throws NoSuchElementException if\n the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.maxOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array.\n * @throws NoSuchElementException if\n the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.maxOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array.\n * @throws NoSuchElementException if\n the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>

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UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R { \n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? { \n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? { \n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
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UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? { \n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
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Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? { \n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxOrNull(): UInt? { \n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxOrNull(): ULong? { \n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
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= e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxOrNull(): UShort? { \n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }\n return max\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWith(comparator:
Comparator<in UInt>): UInt? { \n return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull
instead.", ReplaceWith("this.maxWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince =

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\"1.4\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWith(comparator:
Comparator<in ULong>): ULong? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use
maxWithOrNull instead.\",
ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince =
\"1.4\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWith(comparator:
Comparator<in UByte>): UByte? {\n return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use
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\"1.4\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWith(comparator:
Comparator<in UShort>): UShort? {\n return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element
having the largest value according to the provided [comparator] or `null` if there are no elements.\n
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Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the
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Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the
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val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the
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val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return
max\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince =
\"1.4\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt? {\n return
minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
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ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince =
\"1.4\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
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\"1.4\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\n return
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`1.4`)@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n return
minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n\n@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minByOrNull(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
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selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
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values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n\n@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOf(selector: (UInt) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
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ByLambdaReturnType@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOf(selector: (ULong) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =

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minOf(minValue, v)\n } return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n * @SinceKotlin("1.4")\n */\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
ByteArray.minOf(selector: (UByte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
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UShortArray.minOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
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ByLambdaReturnType\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
UIntArray.minOf(selector: (UInt) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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UByteArray.minOf(selector: (UByte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n * @SinceKotlin("1.4")\n */\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
UShortArray.minOf(selector: (UShort) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n * @SinceKotlin("1.4")\n */\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R :
Comparable<R>> UIntArray.minOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw

```

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NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minOf(selector: (ULong) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
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array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minOf(selector: (UShort) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> Double): Double? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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ULongArray.minOfOrNull(selector: (ULong) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
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applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOfOrNull(selector: (UShort) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
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ULongArray.minOfOrNull(selector: (ULong) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
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Comparable<R>> UIntArray.minOfOrNull(selector: (UInt) -> R): R? {\n if (isEmpty()) return null\n var
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.minOfOrNull(selector: (UByte) -> R): R? {\n if (isEmpty()) return null\n var

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minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n\n *\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution\n ByLambdaReturnType\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R : Comparable<R>> UShortArray.minOfOrNull(selector: (UShort) -> R): R? {\n if (isEmpty()) return null\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the\n provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n\n *\n @throws NoSuchElementException if the array is empty.\n\n *\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution\n ByLambdaReturnType\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>\n UIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array.\n\n *\n @throws NoSuchElementException if\n the array is empty.\n\n *\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution\n ByLambdaReturnType\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>\n ULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array.\n\n *\n @throws NoSuchElementException if\n the array is empty.\n\n *\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution\n ByLambdaReturnType\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>\n UByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array.\n\n *\n @throws NoSuchElementException if\n the array is empty.\n\n *\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution\n ByLambdaReturnType\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>\n UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array or `null` if there are no elements.\n\n *\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution\n ByLambdaReturnType\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>\n UIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n if (isEmpty()) return\n null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n*\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
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UByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n*\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n*\n *
Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minOrNull(): UInt? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =
e\n }\n return min\n}\n\n*\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minOrNull(): ULong? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =
e\n }\n return min\n}\n\n*\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minOrNull(): UByte? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =
e\n }\n return min\n}\n\n*\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minOrNull(): UShort? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =
e\n }\n return min\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWith(comparator:
Comparator<in UInt>): UInt? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull
instead.", ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWith(comparator:
Comparator<in ULong>): ULong? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated("Use
minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWith(comparator:
Comparator<in UByte>): UByte? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated("Use
minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince =
"1.4")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWith(comparator:
Comparator<in UShort>): UShort? {\n return minWithOrNull(comparator)\n}\n\n*\n * Returns the first element
having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator:

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Comparator<in UInt>: UInt? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator:
Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWithOrNull(comparator:
Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWithOrNull(comparator:
Comparator<in UByte>): UByte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWithOrNull(comparator:
Comparator<in UShort>): UShort? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns
`true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n
\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
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\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
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\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (predicate(element))
return false\n return true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n * \n *\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.onEach(action: (UInt) -> Unit): UIntArray {\n return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n * \n *\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.onEach(action: (ULong) -> Unit): ULongArray {\n return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself

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afterwards.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.onEach(action: (UByte) -> Unit): UByteArray {\n return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.onEach(action: (UShort) -> Unit): UShortArray {\n return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the
element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element
and the element itself\n * and performs the action on the element.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {\n return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.onEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray {\n return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.onEachIndexed(action: (index: Int, UByte) -> Unit): UByteArray {\n return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.onEachIndexed(action: (index: Int, UShort) -> Unit): UShortArray {\n return apply {
forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is
empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n *
and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty
in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty
in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n

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*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {n if (isEmpty())n throw
UnsupportedOperationException("Empty array can't be reduced.")n var accumulator = this[0]n for (index in
1..lastIndex) {n accumulator = operation(accumulator, this[index])n }n return accumulatorn}n/n/**n *
Accumulates value starting with the first element and applying [operation] from left to rightn * to current
accumulator value and each element.n * n * Throws an exception if this array is empty. If the array can be empty
in an expected way,n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.n * n *
@param [operation] function that takes current accumulator value and an element,n * and calculates the next
accumulator value.n * n * @sample samples.collections.Collections.Aggregates.reducen
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort {n if (isEmpty())n throw
UnsupportedOperationException("Empty array can't be reduced.")n var accumulator = this[0]n for (index in
1..lastIndex) {n accumulator = operation(accumulator, this[index])n }n return accumulatorn}n/n/**n *
Accumulates value starting with the first element and applying [operation] from left to rightn * to current
accumulator value and each element with its index in the original array.n * n * Throws an exception if this array is
empty. If the array can be empty in an expected way,n * please use [reduceIndexedOrNull] instead. It returns `null`
when its receiver is empty.n * n * @param [operation] function that takes the index of an element, current
accumulator value and the element itself,n * and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.reducen
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {n if (isEmpty())n throw
UnsupportedOperationException("Empty array can't be reduced.")n var accumulator = this[0]n for (index in
1..lastIndex) {n accumulator = operation(index, accumulator, this[index])n }n return
accumulatorn}n/n/**n * Accumulates value starting with the first element and applying [operation] from left to
rightn * to current accumulator value and each element with its index in the original array.n * n * Throws an
exception if this array is empty. If the array can be empty in an expected way,n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.n * n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,n * and calculates the next accumulator value.n * n *
@sample samples.collections.Collections.Aggregates.reducen
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {n if (isEmpty())n
throw UnsupportedOperationException("Empty array can't be reduced.")n var accumulator = this[0]n for
(index in 1..lastIndex) {n accumulator = operation(index, accumulator, this[index])n }n return
accumulatorn}n/n/**n * Accumulates value starting with the first element and applying [operation] from left to
rightn * to current accumulator value and each element with its index in the original array.n * n * Throws an
exception if this array is empty. If the array can be empty in an expected way,n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.n * n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,n * and calculates the next accumulator value.n * n *
@sample samples.collections.Collections.Aggregates.reducen
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {n if (isEmpty())n
throw UnsupportedOperationException("Empty array can't be reduced.")n var accumulator = this[0]n for
(index in 1..lastIndex) {n accumulator = operation(index, accumulator, this[index])n }n return
accumulatorn}n/n/**n * Accumulates value starting with the first element and applying [operation] from left to
rightn * to current accumulator value and each element with its index in the original array.n * n * Throws an
exception if this array is empty. If the array can be empty in an expected way,n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.n * n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,n * and calculates the next accumulator value.n * n *

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@sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceIndexedOrNull(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong? {\n if
(isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceIndexedOrNull(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte? {\n if
(isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceIndexedOrNull(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort? {\n if
(isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt?
{\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n
accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value
starting with the first element and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current

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accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) ->
ULong): ULong? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex)
{\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) ->
UByte): UByte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex)
{\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceOrNull(operation: (acc: UShort, UShort) ->
UShort): UShort? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex)
{\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the last element and applying [operation] from right to left\n * to each element and current
accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected
way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n var index = lastIndex\n if (index < 0)
throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n var index = lastIndex\n if
(index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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ByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 @sample

```

samples.collections.Collections.Aggregates.reduceRight

```

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 @sample

```

samples.collections.Collections.Aggregates.reduceRight

```

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(index, get(index), accumulator)
 --index
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 @sample

```

samples.collections.Collections.Aggregates.reduceRight

```

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(index, get(index), accumulator)
 --index
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 @sample

```

samples.collections.Collections.Aggregates.reduceRight

```

```

*\/@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(index, get(index), accumulator)
 --index
 }
 return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.
 Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
 @sample



```

* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes the index of an element, the element itself and current accumulator value,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexedOrNull(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n

```

```

@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt):
UInt? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index
>= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) ->
ULong): ULong? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) ->
UByte): UByte? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) ->
UShort): UShort? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying

```

[operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.runningFold\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
```

```
UByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n if (isEmpty()) return\n listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for\n (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
```

[operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.runningFold\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
```

```
UShortArray.runningFold(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n if (isEmpty()) return\n listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for\n (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
```

[operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.runningFold\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
```

```
UIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n if (isEmpty())\n return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
```

values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.runningFold\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
```

```
ULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n if\n (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator =\n initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
```

values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.runningFold\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
```

```
UByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n if\n (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator =
```

```

initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n if
(isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator =
initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<UInt>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<ULong>(size).apply { add(accumulator) }\n
for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<UByte>(size).apply { add(accumulator) }\n
for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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UShortArray.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<UShort>(size).apply { add(accumulator) }
 for (index in 1 until size) {
 accumulator = operation(accumulator, this[index])
 result.add(accumulator)
 }
 return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 [operation] from left to right to each element, its index in the original array and current accumulator value that
 starts with the first element of this array.
 * Note that `acc` value passed to [operation] function should not be mutated;
 otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value
 and the element itself, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.runningReduce
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<UInt>(size).apply { add(accumulator) }
 for (index in 1 until size) {
 accumulator = operation(index, accumulator, this[index])
 result.add(accumulator)
 }
 return result
}

/**
 * Returns a list containing successive accumulation
 values generated by applying [operation] from left to right to each element, its index in the original array and
 current accumulator value that starts with the first element of this array.
 * Note that `acc` value passed to
 [operation] function should not be mutated;
 otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value
 and the element
 itself, and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.runningReduce
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<ULong>(size).apply {
 add(accumulator)
 }
 for (index in 1 until size) {
 accumulator = operation(index, accumulator, this[index])
 result.add(accumulator)
 }
 return result
}

/**
 * Returns a list containing successive accumulation
 values generated by applying [operation] from left to right to each element, its index in the original array and
 current accumulator value that starts with the first element of this array.
 * Note that `acc` value passed to
 [operation] function should not be mutated;
 otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value
 and the element
 itself, and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.runningReduce
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.runningReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<UByte>(size).apply {
 add(accumulator)
 }
 for (index in 1 until size) {
 accumulator = operation(index, accumulator, this[index])
 result.add(accumulator)
 }
 return result
}

/**
 * Returns a list containing successive accumulation
 values generated by applying [operation] from left to right to each element, its index in the original array and
 current accumulator value that starts with the first element of this array.
 * Note that `acc` value passed to
 [operation] function should not be mutated;
 otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value
 and the element
 itself, and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.runningReduce
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.runningReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): List<UShort> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<UShort>(size).apply {
 add(accumulator)
 }
 for (index in 1 until size) {
 accumulator = operation(index, accumulator, this[index])
 result.add(accumulator)
 }
 return result
}

/**
 * Returns a list containing successive accumulation
 values generated by applying [operation] from left to right to each element and current accumulator value that

```

starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
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```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list
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containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.scanReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n return runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.scanReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n return runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.scanReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n return runningReduce(operation)\n}\n\n@Deprecated("Use runningReduce instead.", ReplaceWith("runningReduce(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.scanReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n return runningReduce(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.scanReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.scanReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {\n return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.scanReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {\n return runningReduceIndexed(operation)\n}\n\n@Deprecated("Use runningReduceIndexed instead.", ReplaceWith("runningReduceIndexed(operation)"), level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n
```

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@kotlin.internal.InlineOnly\npublic inline fun UShortArray.scanReduceIndexed(operation: (index: Int, acc: UShort,
UShort) -> UShort): List<UShort> {\n return runningReduceIndexed(operation)\n}\n\n/**\n * Returns the sum of
all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumBy(selector: (UInt) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sumBy(selector: (ULong) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum
+= selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sumBy(selector: (UByte) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum
+= selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sumBy(selector: (UShort) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum
+= selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumByDouble(selector: (UInt) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sumByDouble(selector: (ULong) -> Double): Double {\n var sum: Double = 0.0\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sumByDouble(selector: (UByte) -> Double): Double {\n var sum: Double = 0.0\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sumByDouble(selector: (UShort) -> Double): Double {\n var sum: Double = 0.0\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector:
(UInt) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@Suppress(\"INAPPLICABLE\_JVM\_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE\_JVM\_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE\_JVM\_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE\_JVM\_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE\_JVM\_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE\_JVM\_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE\_JVM\_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE\_JVM\_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/\*\*\n \* Returns the sum of all values produced by [selector] function applied to each element in the array.\n

\*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:
(UShort) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt)
-> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each
element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:
(UShort) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector:
(UInt) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\
\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\
\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:
(UShort) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and
the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out
R>): List<Pair<UInt, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Array<out R>): List<Pair<ULong, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out
R>): List<Pair<UByte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Array<out R>): List<Pair<UShort, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i],
other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i],
other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i],
other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n

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list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with
the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other:
Iterable<R>): List<Pair<UInt, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Iterable<R>): List<Pair<ULong, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other:
Iterable<R>): List<Pair<UByte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Iterable<R>): List<Pair<UShort, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n val arraySize = size\n val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n
 if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n val arraySize = size\n val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other)
{\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n *
using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n val arraySize = size\n val list
= ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n
 if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n val arraySize = size\n val

```

```

list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other)
{\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray):
List<Pair<UInt, UInt>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray):
List<Pair<ULong, ULong>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray):
List<Pair<UByte, UByte>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray):
List<Pair<UShort, UShort>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built
from the elements of `this` array and the [other] array with the same index\n * using the provided [transform]
function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun

```

```

Array<out UInt>.sum(): UInt {
 var sum: UInt = 0u
 for (element in this) {
 sum += element
 }
 return sum
}
Returns the sum of all elements in the array.

@kotlin.jvm.JvmName("sumOfULong")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Array<out ULong>.sum(): ULong {
 var sum: ULong = 0uL
 for (element in this) {
 sum += element
 }
 return sum
}
Returns the sum of all elements in the array.

@kotlin.jvm.JvmName("sumOfUByte")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Array<out UByte>.sum(): UInt {
 var sum: UInt = 0u
 for (element in this) {
 sum += element
 }
 return sum
}
Returns the sum of all elements in the array.

@kotlin.jvm.JvmName("sumOfUShort")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Array<out UShort>.sum(): UInt {
 var sum: UInt = 0u
 for (element in this) {
 sum += element
 }
 return sum
}
Returns the sum of all elements in the array.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.sum(): UInt {
 return storage.sum().toUInt()
}
Returns the sum of all elements in the
array.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.sum(): ULong {
 return storage.sum().toULong()
}
Returns the sum of all elements in
the array.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
fun UByteArray.sum(): UInt {
 return sumBy { it.toUInt() }
}
Returns the sum of all elements in the
array.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.sum(): UInt {
 return sumBy { it.toUInt() }
}
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and Kotlin Programming Language contributors.
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that can be found in the license/LICENSE.txt file.

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UCollectionsKt")
package
kotlin.collections
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*
import
kotlin.ranges.contains
import kotlin.ranges.reversed
Returns an array of UByte containing all of the
elements of this collection.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Collection<UByte>.toUByteArray(): UByteArray {
 val result = UByteArray(size)
 var index = 0
 for (element in this)
 result[index++] = element
 return result
}
Returns an array of UInt containing
all of the elements of this collection.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Collection<UInt>.toUIntArray(): UIntArray {
 val result = UIntArray(size)
 var index = 0
 for (element in this)
 result[index++] = element
 return result
}
Returns an array of ULong containing all of the
elements of this collection.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Collection<ULong>.toULongArray(): ULongArray {
 val result = ULongArray(size)
 var index = 0
 for (element in this)
 result[index++] = element
 return result
}
Returns an array of UShort
containing all of the elements of this collection.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UShort>.toUShortArray():
UShortArray {
 val result = UShortArray(size)
 var index = 0
 for (element in this)
 result[index++] =
element
 return result
}
Returns the sum of all elements in the collection.

@kotlin.jvm.JvmName("sumOfUInt")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Iterable<UInt>.sum(): UInt {
 var sum: UInt = 0u
 for (element in this) {
 sum += element
 }
 return sum
}
Returns the sum of all elements in the collection.

@kotlin.jvm.JvmName("sumOfULong")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Iterable<ULong>.sum(): ULong {
 var sum: ULong = 0uL
 for (element in this) {
 sum += element
 }
 return sum
}
Returns the sum of all elements in the collection.

@kotlin.jvm.JvmName("sumOfUByte")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Iterable<UByte>.sum(): UInt {
 var sum: UInt = 0u
 for (element in this) {
 sum += element
 }
 return sum
}
Returns the sum of all elements in the collection.

@kotlin.jvm.JvmName("sumOfUShort")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun

```

```

Iterable<UShort>.sum(): UInt {
 var sum: UInt = 0u
 for (element in this) {
 sum += element
 }
 return sum
}
/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UComparisonsKt")
package
kotlin.comparisons
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
nimport kotlin.random.*
 * Returns the
greater of two values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UInt, b:
UInt): UInt {
 return if (a >= b) a else b
}
 * Returns the greater of two values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: ULong, b: ULong): ULong {
 return if (a >= b) a else b
}
 * Returns the greater of two values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UByte, b: UByte): UByte {
 return if (a >= b) a else b
}
 * Returns the greater of two values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UShort, b: UShort): UShort {
 return if (a >= b) a else b
}
 * Returns the greater of three values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
maxOf(a: UInt, b: UInt, c: UInt): UInt {
 return maxOf(a, maxOf(b, c))
}
 * Returns the greater of three
values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
fun maxOf(a: ULong, b: ULong, c: ULong): ULong {
 return maxOf(a, maxOf(b, c))
}
 * Returns the
greater of three values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
maxOf(a: UByte, b: UByte, c: UByte): UByte {
 return maxOf(a, maxOf(b, c))
}
 * Returns the greater
of three values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {
 return maxOf(a, maxOf(b, c))
}
 *
Returns the greater of the given values.
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun
maxOf(a: UInt, vararg other: UInt): UInt {
 var max = a
 for (e in other) max = maxOf(max, e)
 return
max
}
 * Returns the greater of the given values.
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun maxOf(a: ULong, vararg other: ULong):
ULong {
 var max = a
 for (e in other) max = maxOf(max, e)
 return max
}
 * Returns the greater
of the given values.
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun maxOf(a: UByte,
vararg other: UByte): UByte {
 var max = a
 for (e in other) max = maxOf(max, e)
 return max
}
 * Returns the greater of the given values.
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun
maxOf(a: UShort, vararg other: UShort): UShort {
 var max = a
 for (e in other) max = maxOf(max, e)
 return max
}
 * Returns the smaller of two values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: UInt, b: UInt): UInt {
 return if (a <= b) a else b
}
 * Returns the smaller of two values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: ULong, b: ULong): ULong {
 return if (a <= b) a else b
}
 * Returns the smaller of two values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: UByte, b: UByte): UByte {
 return if (a <= b) a else b
}
 * Returns the smaller of two values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: UShort, b: UShort): UShort {
 return if (a <= b) a else b
}
 * Returns the smaller of three values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
minOf(a: UInt, b: UInt, c: UInt): UInt {
 return minOf(a, minOf(b, c))
}
 * Returns the smaller of three
values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
fun minOf(a: ULong, b: ULong, c: ULong): ULong {
 return minOf(a, minOf(b, c))
}
 * Returns the
smaller of three values.
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
minOf(a: UByte, b: UByte, c: UByte): UByte {
 return minOf(a, minOf(b, c))
}
 * Returns the smaller

```

```

of three values.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns
the smaller of the given values.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a:
UInt, vararg other: UInt): UInt {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n
* Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
minOf(a: ULong, vararg other: ULong): ULong {\n var min = a\n for (e in other) min = minOf(min, e)\n return
min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte, vararg other: UByte):
UByte {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller of
the given values.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UShort, vararg
other: UShort): UShort {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n"/*\n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("URangesKt")\n\npackage
kotlin.ranges\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns a
random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntRange.random(): UInt {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n
* \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongRange.random(): ULong {\n return random(Random)\n}\n\n/**\n * Returns a random element from this
range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is
empty.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntRange.random(random:
Random): UInt {\n try {\n return random.nextUInt(this)\n } catch(e: IllegalArgumentException) {\n
 throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using
the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongRange.random(random: Random):
ULong {\n try {\n return random.nextULong(this)\n } catch(e: IllegalArgumentException) {\n throw
NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range, or `null` if this
range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UIntRange.randomOrNull(): UInt? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULongRange.randomOrNull(): ULong? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\np
ublic fun UIntRange.randomOrNull(random: Random): UInt? {\n if (isEmpty())\n return null\n return
random.nextUInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\np
ublic fun ULongRange.randomOrNull(random: Random): ULong? {\n if (isEmpty())\n return null\n return
random.nextULong(this)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always
returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntRange.contains(element: UInt?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n
*

```



Returns `true` if this range contains the specified [element].  
 Always returns `false` if the [element] is `null`.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline
operator fun ULongRange.contains(element: ULong?): Boolean {
 return element != null &&
 contains(element)
}

```

Checks if the specified [value] belongs to this range.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public operator fun UIntRange.contains(
 value: UByte): Boolean {
 return contains(value.toInt())
}

```

Checks if the specified [value] belongs to this range.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public operator fun
 ULongRange.contains(value: UByte): Boolean {
 return contains(value.toULong())
}

```

Checks if the specified [value] belongs to this range.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public operator fun
 ULongRange.contains(value: UInt): Boolean {
 return contains(value.toULong())
}

```

Checks if the specified [value] belongs to this range.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public operator fun
 UIntRange.contains(value: ULong): Boolean {
 return (value shr UInt.SIZE_BITS) == 0uL &&
 contains(value.toInt())
}

```

Checks if the specified [value] belongs to this range.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public operator fun
 UIntRange.contains(value: UShort): Boolean {
 return contains(value.toInt())
}

```

Checks if the specified [value] belongs to this range.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public operator fun
 ULongRange.contains(value: UShort): Boolean {
 return contains(value.toULong())
}

```

Returns a progression from this value down to the specified [to] value with the step -1.  
 The [to] value should be less than or equal to `this` value.  
 If the [to] value is greater than `this` value the returned progression is empty.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public infix fun UByte.downTo(
 to: UByte): UIntProgression {
 return UIntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

```

Returns a progression from this value down to the specified [to] value with the step -1.  
 The [to] value should be less than or equal to `this` value.  
 If the [to] value is greater than `this` value the returned progression is empty.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public infix fun UInt.downTo(
 to: UInt): UIntProgression {
 return UIntProgression.fromClosedRange(this, to, -1)
}

```

Returns a progression from this value down to the specified [to] value with the step -1.  
 The [to] value should be less than or equal to `this` value.  
 If the [to] value is greater than `this` value the returned progression is empty.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public infix fun ULong.downTo(
 to: ULong): ULongProgression {
 return ULongProgression.fromClosedRange(this, to, -1L)
}

```

Returns a progression from this value down to the specified [to] value with the step -1.  
 The [to] value should be less than or equal to `this` value.  
 If the [to] value is greater than `this` value the returned progression is empty.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public infix fun UShort.downTo(
 to: UShort): UIntProgression {
 return UIntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

```

Returns a progression that goes over the same range in the opposite direction with the same step.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun UIntProgression.reversed():
 UIntProgression {
 return UIntProgression.fromClosedRange(last, first, -step)
}

```

Returns a progression that goes over the same range in the opposite direction with the same step.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun ULongProgression.reversed():
 ULongProgression {
 return ULongProgression.fromClosedRange(last, first, -step)
}

```

Returns a progression that goes over the same range with the given step.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public infix fun UIntProgression.step(
 step: Int): UIntProgression {
 checkStepIsPositive(step > 0, step)
 return UIntProgression.fromClosedRange(first, last, if (this.step > 0)
 step else -step)
}

```

Returns a progression that goes over the same range with the given step.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public infix fun ULongProgression.step(
 step: Long): ULongProgression {
 checkStepIsPositive(step > 0, step)
 return ULongProgression.fromClosedRange(first, last, if (this.step > 0)
 step else -step)
}

```

Returns a range from this value up to but excluding the specified [to] value.  
 If the [to] value is less than or equal to `this` value,

```

then the returned range is empty.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun
UByte.until(to: UByte): UIntRange {\n if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n return
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UInt.until(to: UInt): UIntRange {\n
if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n return this .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a
range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to
`this` value, then the returned range is empty.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
infix fun ULong.until(to: ULong): ULongRange {\n if (to <= ULong.MIN_VALUE) return
ULongRange.EMPTY\n return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but
excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned
range is empty.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.until(to:
UShort): UIntRange {\n if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n return this.toUInt() .. (to -
1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return
this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtLeast(minimumValue: UInt):
UInt {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less
than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]
or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtLeast(minimumValue:
ULong): ULong {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this
value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the
[minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtLeast(minimumValue:
UByte): UByte {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value
is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the
[minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtLeast(minimumValue:
UShort): UShort {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this
value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtMost(maximumValue: UInt):
UInt {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtMost(maximumValue:
ULong): ULong {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtMost(maximumValue:
UByte): UByte {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this

```

```

value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtMost(maximumValue:
UShort): UShort {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range,
or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(minimumValue: UInt,
maximumValue: UInt): UInt {\n if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot
coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")\n if (this <
minimumValue) return minimumValue\n if (this > maximumValue) return maximumValue\n return
this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n *
@return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(minimumValue: ULong,
maximumValue: ULong): ULong {\n if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue)
return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceIn(minimumValue: UByte,
maximumValue: UByte): UByte {\n if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue)
return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceIn(minimumValue: UShort,
maximumValue: UShort): UShort {\n if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue)
return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(range: ClosedRange<UInt>):
UInt {\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<UInt>(range)\n }\n if
(range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")\n return
when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else ->
this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the
[range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than
`range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(range:

```

ClosedRange<ULong>: ULong {  
 if (range is ClosedFloatingPointRange) {  
 return this.coerceIn<ULong>(range)  
 }  
 if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: \$range.")  
 return when {  
 this < range.start -> range.start  
 this > range.endInclusive -> range.endInclusive  
 else -> this  
 }  
}

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 \*/

```
\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("USequencesKt")\n\npackage kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.\n\n * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
```

```
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UInt>.sum(): UInt {
 var sum: UInt = 0u
 for (element in this) {
 sum += element
 }
 return sum
}
```

/\*  
 \* Returns the sum of all elements in the sequence.  
 \* The operation is \_terminal\_.

```
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Sequence<ULong>.sum(): ULong {
 var sum: ULong = 0uL
 for (element in this) {
 sum += element
 }
 return sum
}
```

/\*  
 \* Returns the sum of all elements in the sequence.  
 \* The operation is \_terminal\_.

```
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UByte>.sum(): UInt {
 var sum: UInt = 0u
 for (element in this) {
 sum += element
 }
 return sum
}
```

/\*  
 \* Returns the sum of all elements in the sequence.  
 \* The operation is \_terminal\_.

```
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UShort>.sum(): UInt {
 var sum: UInt = 0u
 for (element in this) {
 sum += element
 }
 return sum
}
```

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 \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.  
 \*/

```
\npackage kotlin\n\npublic expect open class Error : Throwable {
 constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class Exception : Throwable {
 constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class RuntimeException : Exception {
 constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class IllegalArgumentException : RuntimeException {
 constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class IllegalStateException : RuntimeException {
 constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class IndexOutOfBoundsException : RuntimeException {
 constructor()\n constructor(message: String?)\n}\n\npublic expect open class ConcurrentModificationException : RuntimeException {
 constructor()\n constructor(message: String?)\n @Deprecated("The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\n constructor(message: String?, cause: Throwable?)\n @Deprecated("The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\n constructor(cause: Throwable?)\n}\n\npublic expect open class UnsupportedOperationException : RuntimeException {
 constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class NumberFormatException : IllegalArgumentException {
 constructor()\n constructor(message: String?)\n}\n\npublic expect open class NullPointerException : RuntimeException {
 constructor()\n constructor(message: String?)\n}\n\npublic expect open class ClassCastException : RuntimeException {
 constructor()\n constructor(message: String?)\n}\n\npublic expect open class AssertionError : Error {
 constructor()\n constructor(message: Any?)\n}\n\npublic expect open class NoSuchElementException : RuntimeException {
 constructor()\n constructor(message:
```

```

String?)\n}\n\n@SinceKotlin("1.3")\npublic expect open class ArithmeticException : RuntimeException {\n
constructor()\n constructor(message: String?)\n}\n\n@Deprecated("This exception type is not supposed to be
thrown or caught in common code and will be removed from kotlin-stdlib-common soon.\", level =
DeprecationLevel.ERROR)\npublic expect open class NoWhenBranchMatchedException : RuntimeException {\n
constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n
constructor(cause: Throwable?)\n}\n\n@Deprecated("This exception type is not supposed to be thrown or caught in
common code and will be removed from kotlin-stdlib-common soon.\", level = DeprecationLevel.ERROR)\npublic
expect class UninitializedPropertyAccessException : RuntimeException {\n constructor()\n
constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause:
Throwable?)\n}\n\n/**\n * Thrown after invocation of a function or property that was expected to return `Nothing`,
but returned something instead.\n */\n@SinceKotlin("1.4")\n@PublishedApi\ninternal class
KotlinNothingValueException : RuntimeException {\n constructor(): super()\n constructor(message: String?):
super(message)\n constructor(message: String?, cause: Throwable?): super(message, cause)\n
constructor(cause: Throwable?): super(cause)\n}\n\n/**\n * Returns the detailed description of this throwable
with its stack trace.\n */\n * The detailed description includes:\n * - the short description (see [Throwable.toString])
of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions that were
[suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of each
throwable in the [Throwable.cause] chain.\n */\n\n@SinceKotlin("1.4")\npublic expect fun
Throwable.stackTraceToString(): String\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString]
of this throwable to the standard output or standard error output.\n */\n\n@SinceKotlin("1.4")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic expect fun
Throwable.printStackTrace(): Unit\n\n/**\n * When supported by the platform, adds the specified exception to the
list of exceptions that were\n * suppressed in order to deliver this exception.\n */\n\n@SinceKotlin("1.4")\npublic
expect fun Throwable.addSuppressed(exception: Throwable)\n\n/**\n * Returns a list of all exceptions that were
suppressed in order to deliver this exception.\n */\n * The list can be empty:\n * - if no exceptions were suppressed;\n
* - if the platform doesn't support suppressed exceptions;\n * - if this [Throwable] instance has disabled the
suppression.\n */\n\n@SinceKotlin("1.4")\npublic expect val Throwable.suppressedExceptions:
List<Throwable>,"/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
/\n\npackage kotlin.js\nimport kotlin.annotation.AnnotationTarget.\n\n/**\n * Gives a declaration (a function, a
property or a class) specific name in JavaScript.\n */\n\n@Target(CLASS, FUNCTION, PROPERTY,
CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\n@OptionalExpectation\npublic expect
annotation class JsName(val name: String)\n\n/**\n * Marks experimental JS export annotations.\n */\n * Note that
behavior of these annotations will likely be changed in the future.\n */\n * Usages of such annotations will be
reported as warnings unless an explicit opt-in with\n * the [OptIn] annotation, e.g.
`@OptIn(ExperimentalJsExport::class)`,\n * or with the `-Xopt-in=kotlin.js.ExperimentalJsExport` compiler option
is given.\n */\n\n@Suppress("DEPRECATION")\n@Experimental(level =
Experimental.Level.WARNING)\n@RequiresOptIn(level =
RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Since
Kotlin("1.4")\npublic annotation class ExperimentalJsExport\n\n/**\n * Exports top-level declaration on JS
platform.\n */\n * Compiled module exposes declarations that are marked with this annotation without name
mangling.\n */\n * This annotation can be applied to either files or top-level declarations.\n */\n * It is currently
prohibited to export the following kinds of declarations:\n * * `expect` declarations\n * * inline functions with
reified type parameters\n * * suspend functions\n * * secondary constructors without `@JsName`\n * *
extension properties\n * * enum classes\n * * annotation classes\n */\n * Signatures of exported declarations must
only contain "exportable" types:\n * * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`,
`Double`\n * * `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n * *
`Array<exportable-type>`\n * * Function types with exportable parameters and return types\n * * `external` or

```

```

`@JsExport` classes and interfaces\n * * Nullable counterparts of types above\n * * Unit return type. Must not be
nullable\n * * This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n
*\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY,
FUNCTION, FILE)\n@SinceKotlin("1.4")\n@OptionalExpectation\npublic expect annotation class
JsExport()", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.collections\n\nimport kotlin.internal.PlatformDependent\n\n/**\n * Classes that inherit from
this interface can be represented as a sequence of elements that can\n * be iterated over.\n * @param T the type of
element being iterated over. The iterator is covariant in its element type.\n *\npublic interface Iterable<out T> {\n
/**\n * Returns an iterator over the elements of this object.\n * \n public operator fun iterator():
Iterator<T>\n}\n\n/**\n * Classes that inherit from this interface can be represented as a sequence of elements that
can\n * be iterated over and that supports removing elements during iteration.\n * @param T the type of element
being iterated over. The mutable iterator is invariant in its element type.\n *\npublic interface MutableIterable<out
T> : Iterable<T> {\n /**\n * Returns an iterator over the elements of this sequence that supports removing
elements during iteration.\n * \n override fun iterator(): MutableIterator<T>\n}\n\n/**\n * A generic collection
of elements. Methods in this interface support only read-only access to the collection;\n * read/write access is
supported through the [MutableCollection] interface.\n * @param E the type of elements contained in the collection.
The collection is covariant in its element type.\n *\npublic interface Collection<out E> : Iterable<E> {\n // Query
Operations\n /**\n * Returns the size of the collection.\n * \n public val size: Int\n\n /**\n * Returns
`true` if the collection is empty (contains no elements), `false` otherwise.\n * \n public fun isEmpty():
Boolean\n\n /**\n * Checks if the specified element is contained in this collection.\n * \n public operator
fun contains(element: @UnsafeVariance E): Boolean\n\n override fun iterator(): Iterator<E>\n\n // Bulk
Operations\n /**\n * Checks if all elements in the specified collection are contained in this collection.\n * \n
public fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic collection of
elements that supports adding and removing elements.\n *\n * @param E the type of elements contained in the
collection. The mutable collection is invariant in its element type.\n *\npublic interface MutableCollection<E> :
Collection<E>, MutableIterable<E> {\n // Query Operations\n override fun iterator(): MutableIterator<E>\n\n //
Modification Operations\n /**\n * Adds the specified element to the collection.\n * \n * @return `true` if
the element has been added, `false` if the collection does not support duplicates\n * and the element is already
contained in the collection.\n * \n public fun add(element: E): Boolean\n\n /**\n * Removes a single
instance of the specified element from this\n * collection, if it is present.\n * \n * @return `true` if the element
has been successfully removed; `false` if it was not present in the collection.\n * \n public fun remove(element:
E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the elements of the specified collection
to this collection.\n * \n * @return `true` if any of the specified elements was added to the collection, `false` if
the collection was not modified.\n * \n public fun addAll(elements: Collection<E>): Boolean\n\n /**\n *
Removes all of this collection's elements that are also contained in the specified collection.\n * \n * @return
`true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n
*\n public fun removeAll(elements: Collection<E>): Boolean\n\n /**\n * Retains only the elements in this
collection that are contained in the specified collection.\n * \n * @return `true` if any element was removed
from the collection, `false` if the collection was not modified.\n * \n public fun retainAll(elements:
Collection<E>): Boolean\n\n /**\n * Removes all elements from this collection.\n * \n public fun clear():
Unit\n}\n\n/**\n * A generic ordered collection of elements. Methods in this interface support only read-only access
to the list;\n * read/write access is supported through the [MutableList] interface.\n * @param E the type of elements
contained in the list. The list is covariant in its element type.\n *\npublic interface List<out E> : Collection<E> {\n
// Query Operations\n\n override val size: Int\n\n override fun isEmpty(): Boolean\n\n override fun
contains(element: @UnsafeVariance E): Boolean\n\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n
override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n // Positional Access
Operations\n /**\n * Returns the element at the specified index in the list.\n * \n public operator fun

```

```

get(index: Int): E\n\n // Search Operations\n /**\n * Returns the index of the first occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n public fun
indexOf(element: @UnsafeVariance E): Int\n\n /**\n * Returns the index of the last occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n public fun
lastIndexOf(element: @UnsafeVariance E): Int\n\n // List Iterators\n /**\n * Returns a list iterator over the
elements in this list (in proper sequence).\n */\n public fun listIterator(): ListIterator<E>\n\n /**\n * Returns
a list iterator over the elements in this list (in proper sequence), starting at the specified [index].\n */\n public
fun listIterator(index: Int): ListIterator<E>\n\n // View\n /**\n * Returns a view of the portion of this list
between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\n * The returned list is backed by this
list, so non-structural changes in the returned list are reflected in this list, and vice-versa.\n */\n * Structural
changes in the base list make the behavior of the view undefined.\n */\n public fun subList(fromIndex: Int,
toIndex: Int): List<E>\n\n /**\n * A generic ordered collection of elements that supports adding and removing
elements.\n * @param E the type of elements contained in the list. The mutable list is invariant in its element type.\n
*/\n\n public interface MutableList<E> : List<E>, MutableCollection<E> {\n // Modification Operations\n /**\n
* Adds the specified element to the end of this list.\n */\n * @return `true` because the list is always modified as
the result of this operation.\n */\n override fun add(element: E): Boolean\n\n override fun remove(element: E):
Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the elements of the specified collection to
the end of this list.\n */\n * The elements are appended in the order they appear in the [elements] collection.\n
*/\n * @return `true` if the list was changed as the result of the operation.\n */\n override fun addAll(elements:
Collection<E>): Boolean\n\n /**\n * Inserts all of the elements of the specified collection [elements] into this
list at the specified [index].\n */\n * @return `true` if the list was changed as the result of the operation.\n */\n
public fun addAll(index: Int, elements: Collection<E>): Boolean\n\n override fun removeAll(elements:
Collection<E>): Boolean\n\n override fun retainAll(elements: Collection<E>): Boolean\n\n override fun clear():
Unit\n\n // Positional Access Operations\n /**\n * Replaces the element at the specified position in this list
with the specified element.\n */\n * @return the element previously at the specified position.\n */\n public
operator fun set(index: Int, element: E): E\n\n /**\n * Inserts an element into the list at the specified [index].\n
*/\n\n public fun add(index: Int, element: E): Unit\n\n /**\n * Removes an element at the specified [index] from
the list.\n */\n * @return the element that has been removed.\n */\n\n public fun removeAt(index: Int): E\n\n
// List Iterators\n override fun listIterator(): MutableListIterator<E>\n\n override fun listIterator(index: Int):
MutableListIterator<E>\n\n // View\n override fun subList(fromIndex: Int, toIndex: Int):
MutableList<E>\n\n /**\n * A generic unordered collection of elements that does not support duplicate
elements.\n * Methods in this interface support only read-only access to the set;\n * read/write access is supported
through the [MutableSet] interface.\n * @param E the type of elements contained in the set. The set is covariant in
its element type.\n */\n\n public interface Set<out E> : Collection<E> {\n // Query Operations\n\n override val size:
Int\n\n override fun isEmpty(): Boolean\n\n override fun contains(element: @UnsafeVariance E): Boolean\n\n
override fun iterator(): Iterator<E>\n\n // Bulk Operations\n\n override fun containsAll(elements:
Collection<@UnsafeVariance E>): Boolean\n\n /**\n * A generic unordered collection of elements that does not
support duplicate elements, and supports\n * adding and removing elements.\n * @param E the type of elements
contained in the set. The mutable set is invariant in its element type.\n */\n\n public interface MutableSet<E> : Set<E>,
MutableCollection<E> {\n // Query Operations\n\n override fun iterator(): MutableIterator<E>\n\n //
Modification Operations\n\n /**\n * Adds the specified element to the set.\n */\n * @return `true` if the
element has been added, `false` if the element is already contained in the set.\n */\n\n override fun add(element:
E): Boolean\n\n override fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n\n override
fun addAll(elements: Collection<E>): Boolean\n\n override fun removeAll(elements: Collection<E>): Boolean\n\n
override fun retainAll(elements: Collection<E>): Boolean\n\n override fun clear(): Unit\n\n /**\n * A collection
that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each
key. Map keys are unique; the map holds only one value for each key.\n * Methods in this interface support only
read-only access to the map; read-write access is supported through\n * the [MutableMap] interface.\n * @param K

```

```

the type of map keys. The map is invariant in its key type, as it
 can accept key as a parameter (of
[containsKey] for example) and return it in [keys] set.
 @param V the type of map values. The map is covariant
in its value type.
 public interface Map<K, out V> {
 // Query Operations
 /**
 * Returns the number
of key/value pairs in the map.
 */
 public val size: Int
 /**
 * Returns `true` if the map is empty
(contains no elements), `false` otherwise.
 */
 public fun isEmpty(): Boolean
 /**
 * Returns
`true` if the map contains the specified [key].
 */
 public fun containsKey(key: K): Boolean
 /**
 * Returns
`true` if the map maps one or more keys to the specified [value].
 */
 public fun containsValue(value:
@UnsafeVariance V): Boolean
 /**
 * Returns the value corresponding to the given [key], or `null` if such
a key is not present in the map.
 */
 public operator fun get(key: K): V?
 /**
 * Returns the value
corresponding to the given [key], or [defaultValue] if such a key is not present in the map.
 */
 @since JDK
1.8
 @SinceKotlin("1.1")
 @PlatformDependent
 public fun getOrDefault(key: K, defaultValue:
@UnsafeVariance V): V {
 // See default implementation in JDK sources
 throw
NotImplementedError()
 }
 // Views
 /**
 * Returns a read-only [Set] of all keys in this map.
 */
 public val keys: Set<K>
 /**
 * Returns a read-only [Collection] of all values in this map. Note that this
collection may contain duplicate values.
 */
 public val values: Collection<V>
 /**
 * Returns a read-
only [Set] of all key/value pairs in this map.
 */
 public val entries: Set<Map.Entry<K, V>>
 /**
 *
Represents a key/value pair held by a [Map].
 */
 public interface Entry<out K, out V> {
 /**
 *
Returns the key of this key/value pair.
 */
 public val key: K
 /**
 *
Returns the value of
this key/value pair.
 */
 public val value: V
 }
 /**
 * A modifiable collection that holds pairs
of objects (keys and values) and supports efficiently retrieving
 * the value corresponding to each key. Map keys
are unique; the map holds only one value for each key.
 * @param K the type of map keys. The map is invariant in
its key type.
 * @param V the type of map values. The mutable map is invariant in its value type.
 */
 public interface MutableMap<K, V> : Map<K, V> {
 // Modification Operations
 /**
 * Associates the specified
[value] with the specified [key] in the map.
 */
 @return the previous value associated with the key, or
`null` if the key was not present in the map.
 public fun put(key: K, value: V): V?
 /**
 *
Removes the specified key and its corresponding value from this map.
 */
 @return the previous value
associated with the key, or `null` if the key was not present in the map.
 public fun remove(key: K):
V?
 /**
 * Removes the entry for the specified key only if it is mapped to the specified value.
 */
 @return true if entry was removed
 @SinceKotlin("1.1")
 @PlatformDependent
 public fun
remove(key: K, value: V): Boolean {
 // See default implementation in JDK sources
 return true
 }
 // Bulk Modification Operations
 /**
 * Updates this map with key/value pairs from the specified map
[from].
 */
 public fun putAll(from: Map<out K, V>): Unit
 /**
 * Removes all elements from this
map.
 */
 public fun clear(): Unit
 // Views
 /**
 * Returns a [MutableSet] of all keys in this
map.
 */
 override val keys: MutableSet<K>
 /**
 * Returns a [MutableCollection] of all values in
this map. Note that this collection may contain duplicate values.
 */
 override val values:
MutableCollection<V>
 /**
 * Returns a [MutableSet] of all key/value pairs in this map.
 */
 override val entries: MutableSet<MutableMap.MutableEntry<K, V>>
 /**
 * Represents a key/value pair
held by a [MutableMap].
 */
 public interface MutableEntry<K, V> : Map.Entry<K, V> {
 /**
 *
Changes the value associated with the key of this entry.
 */
 @return the previous value corresponding
to the key.
 public fun setValue(newValue: V): V
 }
 }
 }
 "*/
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 * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.
 */
}
// Auto-generated file. DO NOT
EDIT!
package kotlin.collections
/**
 * An iterator over a sequence of values of type `Byte`.
 */
public abstract class ByteIterator : Iterator<Byte> {
 override final fun next() = nextByte()
 /**
 * Returns the next value in
the sequence without boxing.
 */
 public abstract fun nextByte(): Byte
}
/**
 * An iterator over a sequence of
values of type `Char`.
 */
public abstract class CharIterator : Iterator<Char> {
 override final fun next() =
nextChar()
 /**
 * Returns the next value in the sequence without boxing.
 */
 public abstract fun nextChar():
Char
}
/**
 * An iterator over a sequence of values of type `Short`.
 */
public abstract class ShortIterator :

```



```

Iterator<Short> {\n override final fun next() = nextShort()\n\n /** Returns the next value in the sequence without
boxing. */\n public abstract fun nextShort(): Short\n}\n\n/** An iterator over a sequence of values of type `Int`.\n */\npublic abstract class IntIterator : Iterator<Int> {\n override final fun next() = nextInt()\n\n /** Returns the
next value in the sequence without boxing. */\n public abstract fun nextInt(): Int\n}\n\n/** An iterator over a
sequence of values of type `Long`.\n */\npublic abstract class LongIterator : Iterator<Long> {\n override final fun
next() = nextLong()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun
nextLong(): Long\n}\n\n/** An iterator over a sequence of values of type `Float`.\n */\npublic abstract class
FloatIterator : Iterator<Float> {\n override final fun next() = nextFloat()\n\n /** Returns the next value in the
sequence without boxing. */\n public abstract fun nextFloat(): Float\n}\n\n/** An iterator over a sequence of
values of type `Double`.\n */\npublic abstract class DoubleIterator : Iterator<Double> {\n override final fun next() =
nextDouble()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun
nextDouble(): Double\n}\n\n/** An iterator over a sequence of values of type `Boolean`.\n */\npublic abstract class
BooleanIterator : Iterator<Boolean> {\n override final fun next() = nextBoolean()\n\n /** Returns the next value
in the sequence without boxing. */\n public abstract fun nextBoolean(): Boolean\n}\n\n"/\n * Copyright 2010-
2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin.ranges\n\n/**\n * An iterator over a progression of values of type `Char`.\n * @property
step the number by which the value is incremented on each step.\n */\ninternal class CharProgressionIterator(first:
Char, last: Char, val step: Int) : CharIterator() {\n private val finalElement = last.toInt()\n private var hasNext:
Boolean = if (step > 0) first <= last else first >= last\n private var next = if (hasNext) first.toInt() else
finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextChar(): Char {\n val value
= next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext =
false\n }\n else {\n next += step\n }\n return value.toChar()\n }\n}\n\n/**\n * An iterator over a progression of values of type `Int`.\n * @property step the number by which the value is
incremented on each step.\n */\ninternal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator()
{\n private val finalElement = last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n
private var next = if (hasNext) first else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override
fun nextInt(): Int {\n val value = next\n if (value == finalElement) {\n if (!hasNext) throw
kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next += step\n }\n return
value\n }\n}\n\n/**\n * An iterator over a progression of values of type `Long`.\n * @property step the
number by which the value is incremented on each step.\n */\ninternal class LongProgressionIterator(first: Long,
last: Long, val step: Long) : LongIterator() {\n private val finalElement = last\n private var hasNext: Boolean =
if (step > 0) first <= last else first >= last\n private var next = if (hasNext) first else finalElement\n\n override
fun hasNext(): Boolean = hasNext\n\n override fun nextLong(): Long {\n val value = next\n if (value ==
finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n
 next += step\n }\n return value\n }\n}\n\n"/\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.ranges\n\nimport kotlin.internal.getProgressionLastElement\n\n/**\n * A progression of values of type
`Char`.\n */\npublic open class CharProgression(\n internal constructor(\n (\n start: Char,\n
endInclusive: Char,\n step: Int\n) : Iterable<Char> {\n init {\n if (step == 0) throw
kotlin.IllegalArgumentException("Step must be non-zero.")\n if (step == Int.MIN_VALUE) throw
kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.")\n }\n\n
/**\n * The first element in the progression.\n */\n public val first: Char = start\n\n /**\n * The
last element in the progression.\n */\n public val last: Char = getProgressionLastElement(start.toInt(),
endInclusive.toInt(), step).toChar()\n\n /**\n * The step of the progression.\n */\n public val step: Int =
step\n\n override fun iterator(): CharIterator = CharProgressionIterator(first, last, step)\n\n /** Checks if the
progression is empty. */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n

```

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override fun equals(other: Any?): Boolean =\n other is CharProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n\n override fun hashCode(): Int =\n if\n (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step)\n\n override fun toString(): String = if (step > 0)\n \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n companion object {\n /**\n * Creates CharProgression within the specified bounds of a closed range.\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression = CharProgression(rangeStart, rangeEnd, step)\n }\n\n /**\n * A progression of values of type `Int`.\n */\n public open class IntProgression\n internal constructor(\n start: Int,\n endInclusive: Int,\n step: Int\n): Iterable<Int> {\n init {\n if (step == 0) throw\n kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n if (step == Int.MIN_VALUE) throw\n kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\n }\n /**\n * The first element in the progression.\n */\n public val first: Int = start\n /**\n * The last element in the progression.\n */\n public val last: Int = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toInt()\n /**\n * The step of the progression.\n */\n public val step: Int = step\n override fun iterator(): IntIterator = IntProgressionIterator(first, last, step)\n /** Checks if the progression is empty. */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n override fun equals(other: Any?): Boolean =\n other is IntProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n override fun hashCode(): Int =\n if\n (isEmpty()) -1 else (31 * (31 * first + last) + step)\n override fun toString(): String = if (step > 0)\n \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n }\n companion object {\n /**\n * Creates IntProgression within the specified bounds of a closed range.\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)\n }\n /**\n * A progression of values of type `Long`.\n */\n *public open class LongProgression\n internal constructor(\n start: Long,\n endInclusive: Long,\n step: Long\n): Iterable<Long> {\n init {\n if (step == 0L) throw\n kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n if (step == Long.MIN_VALUE) throw\n kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on negation.\")\n }\n /**\n * The first element in the progression.\n */\n public val first: Long = start\n /**\n * The last element in the progression.\n */\n public val last: Long =\n getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()\n /**\n * The step of the progression.\n */\n public val step: Long = step\n override fun iterator(): LongIterator = LongProgressionIterator(first, last, step)\n /** Checks if the progression is empty. */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n override fun equals(other: Any?): Boolean =\n other is LongProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\n override fun toString(): String = if (step > 0)\n \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n }\n companion object {\n /**\n * Creates LongProgression within the specified bounds of a closed range.\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)\n }\n }\n /**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n package kotlin.ranges\n }\n}

```

Represents a range of values (for example, numbers or characters).\n \* See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\n \*/\n public interface ClosedRange<T: Comparable<T>> {\n /\*\*\n \* The minimum value in the range.\n \*/\n public val start: T\n /\*\*\n \* The maximum value in the range (inclusive).\n \*/\n public val endInclusive: T\n /\*\*\n \* Checks whether the specified [value] belongs to the range.\n \*/\n public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive\n /\*\*\n \* Checks whether the range is empty.\n \*/\n public fun isEmpty(): Boolean = start > endInclusive\n }\n", "/\*\n \* Copyright 2010-2015 JetBrains s.r.o.\n \* Licensed under the Apache License, Version 2.0 (the "License");\n \* you may not use this file except in compliance with the License.\n \* You may obtain a copy of the License at\n \* http://www.apache.org/licenses/LICENSE-2.0\n \* Unless required by applicable law or agreed to in writing, software\n \* distributed under the License is distributed on an "AS IS" BASIS,\n \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n \* See the License for the specific language governing permissions and\n \* limitations under the License.\n \*/\n\npackage kotlin\n\n/\*\*\n \* The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.\n \*/\n public object Unit {\n override fun toString() = "kotlin.Unit"\n }\n", "/\*\n \* Copyright 2010-2015 JetBrains s.r.o.\n \* Licensed under the Apache License, Version 2.0 (the "License");\n \* you may not use this file except in compliance with the License.\n \* You may obtain a copy of the License at\n \* http://www.apache.org/licenses/LICENSE-2.0\n \* Unless required by applicable law or agreed to in writing, software\n \* distributed under the License is distributed on an "AS IS" BASIS,\n \* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n \* See the License for the specific language governing permissions and\n \* limitations under the License.\n \*/\n\npackage kotlin.annotation\n\nimport kotlin.annotation.AnnotationTarget.\*\n\n/\*\*\n \* Contains the list of code elements which are the possible annotation targets\n \*/\n public enum class AnnotationTarget {\n /\*\*\n \* Class, interface or object, annotation class is also included\n \*/\n CLASS,\n /\*\*\n \* Annotation class only\n \*/\n ANNOTATION\_CLASS,\n /\*\*\n \* Generic type parameter (unsupported yet)\n \*/\n TYPE\_PARAMETER,\n /\*\*\n \* Property\n \*/\n PROPERTY,\n /\*\*\n \* Field, including property's backing field\n \*/\n FIELD,\n /\*\*\n \* Local variable\n \*/\n LOCAL\_VARIABLE,\n /\*\*\n \* Value parameter of a function or a constructor\n \*/\n VALUE\_PARAMETER,\n /\*\*\n \* Constructor only (primary or secondary)\n \*/\n CONSTRUCTOR,\n /\*\*\n \* Function (constructors are not included)\n \*/\n FUNCTION,\n /\*\*\n \* Property getter only\n \*/\n PROPERTY\_GETTER,\n /\*\*\n \* Property setter only\n \*/\n PROPERTY\_SETTER,\n /\*\*\n \* Type usage\n \*/\n TYPE,\n /\*\*\n \* Any expression\n \*/\n EXPRESSION,\n /\*\*\n \* File\n \*/\n FILE,\n /\*\*\n \* Type alias\n \*/\n TYPEALIAS\n }\n\n/\*\*\n \* Contains the list of possible annotation's retentions.\n \*/\n Determines how an annotation is stored in binary output.\n\n public enum class AnnotationRetention {\n /\*\*\n \* Annotation isn't stored in binary output\n \*/\n SOURCE,\n /\*\*\n \* Annotation is stored in binary output, but invisible for reflection\n \*/\n BINARY,\n /\*\*\n \* Annotation is stored in binary output and visible for reflection (default retention)\n \*/\n RUNTIME\n }\n\n/\*\*\n \* This meta-annotation indicates the kinds of code elements which are possible targets of an annotation.\n \*/\n If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements: [CLASS], [PROPERTY], [FIELD], [LOCAL\_VARIABLE], [VALUE\_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY\_GETTER], [PROPERTY\_SETTER].\n\n \* @property allowedTargets list of allowed annotation targets\n \*/\n\n @Target(AnnotationTarget.ANNOTATION\_CLASS)\n\n @MustBeDocumented\n\n public annotation class Target(vararg val allowedTargets: AnnotationTarget)\n\n /\*\*\n \* This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true.\n \*/\n \* @property value necessary annotation retention (RUNTIME, BINARY or SOURCE)\n\n \*/\n\n @Target(AnnotationTarget.ANNOTATION\_CLASS)\n\n public annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)\n\n /\*\*\n \* This meta-annotation determines that an annotation is applicable twice or more on a single code element\n \*/\n\n \*/\n\n @Target(AnnotationTarget.ANNOTATION\_CLASS)\n\n public annotation class Repeatable\n\n /\*\*\n \* This meta-annotation determines that an annotation is a part of public API and therefore should be included in the

generated documentation for the element to which the annotation is applied.

```

\/@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class MustBeDocumented\n", "/\n *
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software\n * distributed under the License is distributed on an "AS IS" BASIS,\n * WITHOUT WARRANTIES
OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language
governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies
that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks\n * That means
it's completely safe to use generic types as argument for such parameter.\n
*/\n\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal
annotation class PureReifiable\n\n/**\n * Specifies that the corresponding built-in method exists depending on
platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the
module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n * method
'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n
*/\n\n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation
class PlatformDependent\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n// a mod b (in arithmetical sense)\nprivate fun mod(a:
Int, b: Int): Int {\n val mod = a % b\n return if (mod >= 0) mod else mod + b\n}\n\nprivate fun mod(a: Long, b:
Long): Long {\n val mod = a % b\n return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun
differenceModulo(a: Int, b: Int, c: Int): Int {\n return mod(mod(a, c) - mod(b, c), c)\n}\n\nprivate fun
differenceModulo(a: Long, b: Long, c: Long): Long {\n return mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n *
Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in
the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n *
[step].\n * No validation on passed parameters is performed. The given parameters should satisfy the
condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start
first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or
difference of successive elements in the progression\n * @return the final element of the progression\n *
*/\n\n@Suppress\n */\n\n@PublishedApi\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when
{\n step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n step < 0 -> if (start <= end)
end else end + differenceModulo(start, end, -step)\n else -> throw kotlin.IllegalArgumentException("Step is
zero.")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the
progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in
case of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should
satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param
start first element of the progression\n * @param end ending bound for the progression\n * @param step
increment, or difference of successive elements in the progression\n * @return the final element of the progression\n
*/\n\n@Suppress\n */\n\n@PublishedApi\ninternal fun getProgressionLastElement(start: Long, end: Long, step: Long):
Long = when {\n step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n step < 0 -> if
(start <= end) end else end + differenceModulo(start, end, -step)\n else -> throw
kotlin.IllegalArgumentException("Step is zero.")\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n@JsName("arrayIterator")\ninternal fun arrayIterator(array:
dynamic, type: String?) = when (type) {\n null -> {\n val arr: Array<dynamic> = array\n object :
Iterator<dynamic> {\n var index = 0\n override fun hasNext() = index < arr.size\n override fun
next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("$index")\n }\n }\n "BooleanArray" -> booleanArrayIterator(array)\n "ByteArray" -> byteArrayIterator(array)\n "ShortArray" -

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> shortArrayIterator(array)\n \"CharArray\" -> charArrayIterator(array)\n \"IntArray\" ->
intArrayIterator(array)\n \"LongArray\" -> longArrayIterator(array)\n \"FloatArray\" ->
floatArrayIterator(array)\n \"DoubleArray\" -> doubleArrayIterator(array)\n else -> throw
IllegalStateException(\"Unsupported type argument for arrayIterator:
$type\")\n}\n\n@JsName(\"booleanArrayIterator\")\ninternal fun booleanArrayIterator(array: BooleanArray) =
object : BooleanIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n override fun
nextBoolean() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"byteArrayIterator\")\ninternal fun byteArrayIterator(array:
ByteArray) = object : ByteIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n override
fun nextByte() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"shortArrayIterator\")\ninternal fun
shortArrayIterator(array: ShortArray) = object : ShortIterator() {\n var index = 0\n override fun hasNext() =
index < array.size\n override fun nextShort() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"charArrayIterator\")\ninternal fun charArrayIterator(array:
CharArray) = object : CharIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n override
fun nextChar() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"intArrayIterator\")\ninternal fun intArrayIterator(array:
IntArray) = object : IntIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n override fun
nextInt() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"floatArrayIterator\")\ninternal fun
floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n var index = 0\n override fun hasNext() = index
< array.size\n override fun nextFloat() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"doubleArrayIterator\")\ninternal fun
doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n var index = 0\n override fun hasNext()
= index < array.size\n override fun nextDouble() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"longArrayIterator\")\ninternal fun longArrayIterator(array:
LongArray) = object : LongIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n
override fun nextLong() = if (index < array.size) array[index++] else throw
NoSuchElementException(\"$index\")\n}\n\n@JsName(\"PropertyMetadata\")\ninternal class
PropertyMetadata(@JsName(\"callableName\") val name:
String)\n\n@JsName(\"noWhenBranchMatched\")\ninternal fun noWhenBranchMatched(): Nothing = throw
NoWhenBranchMatchedException()\n\n@JsName(\"subSequence\")\ninternal fun subSequence(c: CharSequence,
startIndex: Int, endIndex: Int): CharSequence {\n if (c is String) {\n return c.substring(startIndex, endIndex)\n
} else {\n return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\n
}\n}\n\n@JsName(\"captureStack\")\ninternal fun captureStack(@Suppress(\"UNUSED_PARAMETER\")
baseClass: JsClass<in Throwable>, instance: Throwable) {\n if (js(\"Error\").captureStackTrace) {\n // Using
uncropped stack traces due to KT-37563.\n // Precise stack traces are implemented in JS IR compiler and
stdlib\n js(\"Error\").captureStackTrace(instance);\n } else {\n instance.asDynamic().stack = js(\"new
Error()\").stack;\n }\n}\n\n@JsName(\"newThrowable\")\ninternal fun newThrowable(message: String?, cause:
Throwable?): Throwable {\n val throwable = js(\"new Error()\")\n throwable.message = if (jsTypeOf(message)
== \"undefined\") {\n if (cause != null) cause.toString() else null\n } else {\n message\n }\n throwable.cause = cause\n throwable.name = \"Throwable\"\n return
throwable\n}\n\n@JsName(\"BoxedChar\")\ninternal class BoxedChar(val c: Int) : Comparable<Int> {\n override
fun equals(other: Any?): Boolean {\n return other is BoxedChar && c == other.c\n }\n override fun
hashCode(): Int {\n return c\n }\n override fun toString(): String {\n return
js(\"this.c\").unsafeCast<Char>().toString()\n }\n override fun compareTo(other: Int): Int {\n return
js(\"this.c - other\").unsafeCast<Int>()\n }\n @JsName(\"valueOf\")\n public fun valueOf(): Int {\n
return c\n }\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun <T> concat(args: Array<T>): T {\n val typed

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= js("Array")(args.size)\n for (i in args.indices) {\n val arr = args[i]\n if (arr !is Array<*>) {\n typed[i] = js("[]").slice.call(arr)\n } else {\n typed[i] = arr\n }\n }\n return
js("[]").concat.apply(js("[]"), typed);\n}\n\n/** Concat regular Array's and TypedArray's into an Array.\n *\n * @PublishedApi\n * @JsName("arrayConcat")\n * @Suppress("UNUSED_PARAMETER")\n * internal fun <T>
arrayConcat(a: T, b: T): T {\n return concat(js("arguments"))\n}\n\n/** Concat primitive arrays. Main use:
prepare vararg arguments.\n * For compatibility with 1.1.0 the arguments may be a mixture of Array's and
TypedArray's.\n * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray)
returns a TypedArray, otherwise an Array.\n * If the first argument has the $type$ property (Boolean-, Char-, and
LongArray) copy its value to result.$type$.\n * If the first argument is a regular Array without the $type$ property
default to arrayConcat.\n
*\n * @PublishedApi\n * @JsName("primitiveArrayConcat")\n * @Suppress("UNUSED_PARAMETER")\n * internal
fun <T> primitiveArrayConcat(a: T, b: T): T {\n val args: Array<T> = js("arguments")\n if (a is Array<*> &&
a.asDynamic().`$type$` === undefined) {\n return concat(args)\n } else {\n var size = 0\n for (i in
args.indices) {\n size += args[i].asDynamic().length as Int\n }\n val result = js("new
a.constructor(size)")\n kotlin.copyArrayType(a, result)\n size = 0\n for (i in args.indices) {\n val
arr = args[i].asDynamic()\n for (j in 0 until arr.length) {\n result[size++] = arr[j]\n }\n }\n return result\n }\n}\n\n * @JsName("booleanArrayOf")\n * internal fun booleanArrayOf() =
withType("BooleanArray", js("[]").slice.call(arguments))\n}\n\n * @JsName("charArrayOf") // The arguments have
to be slice'd here because of Rhino (see KT-16974)\n * internal fun charArrayOf() = withType("CharArray", js("new
Uint16Array([]).slice.call(arguments)))\n}\n\n * @JsName("longArrayOf")\n * internal fun longArrayOf() =
withType("LongArray",
js("[]").slice.call(arguments))\n}\n\n * @JsName("withType")\n * @kotlin.internal.InlineOnly\n * internal inline fun
withType(type: String, array: dynamic): dynamic {\n array.`$type$` = type\n return array\n}\n", /*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n * @npackage kotlin.js\n *
*\n * Function corresponding to JavaScript's `typeof` operator\n
*\n * @kotlin.internal.InlineOnly\n * @Suppress("UNUSED_PARAMETER")\n * public inline fun jsTypeOf(a: Any?):
String = js("typeof a")\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n * @file:Suppress("UNUSED_PARAMETER",
"NOTHING_TO_INLINE")\n * @npackage kotlin\n *
*\n * Returns an empty array of the specified type [T].\n
*\n * @public inline fun <T> emptyArray(): Array<T> = js("[]")\n}\n\n * @library\n * public fun <T> arrayOf(vararg
elements: T): Array<T> = definedExternally\n}\n\n * @library\n * public fun doubleArrayOf(vararg elements: Double):
DoubleArray = definedExternally\n}\n\n * @library\n * public fun floatArrayOf(vararg elements: Float): FloatArray =
definedExternally\n}\n\n * @library\n * public fun longArrayOf(vararg elements: Long): LongArray =
definedExternally\n}\n\n * @library\n * public fun intArrayOf(vararg elements: Int): IntArray =
definedExternally\n}\n\n * @library\n * public fun charArrayOf(vararg elements: Char): CharArray =
definedExternally\n}\n\n * @library\n * public fun shortArrayOf(vararg elements: Short): ShortArray =
definedExternally\n}\n\n * @library\n * public fun byteArrayOf(vararg elements: Byte): ByteArray =
definedExternally\n}\n\n * @library\n * public fun booleanArrayOf(vararg elements: Boolean): BooleanArray =
definedExternally\n}\n\n *
*\n * Creates a new instance of the [Lazy] that uses the specified initialization function
[initializer].\n *\n * @public actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n}\n\n *
*\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [mode]
parameter is ignored.\n *\n * @public actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n}\n\n *
*\n * Creates a new instance of the [Lazy] that uses the specified initialization
function [initializer].\n *\n * The [lock] parameter is ignored.\n *\n * @public actual fun <T> lazy(lock: Any?,
initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n}\n\n *
*\n * internal fun fillFrom(src: dynamic, dst: dynamic):
dynamic {\n val srcLen: Int = src.length\n val dstLen: Int = dst.length\n var index: Int = 0\n while (index <

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srcLen && index < dstLen) dst[index] = src[index++]\n return dst\n}\n\ninternal fun arrayCopyResize(source:
dynamic, newSize: Int, defaultValue: Any?): dynamic {\n val result = source.slice(0, newSize)\n
copyArrayType(source, result)\n var index: Int = source.length\n if (newSize > index) {\n result.length =
newSize\n while (index < newSize) result[index++] = defaultValue\n }\n return result\n}\n\ninternal fun
<T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\n val result = array.slice()\n
result.length += collection.size\n copyArrayType(array, result)\n var index: Int = array.length\n for (element in
collection) result[index++] = element\n return result\n}\n\ninternal fun <T> fillFromCollection(dst: dynamic,
startIndex: Int, collection: Collection<T>): dynamic {\n var index = startIndex\n for (element in collection)
dst[index++] = element\n return dst\n}\n\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\n if
(from.`$type$` != undefined) {\n to.`$type$` = from.`$type$`\n }\n}\n\ninternal inline fun jsIsType(obj:
dynamic, jsClass: dynamic) = js("\"Kotlin\"").isType(obj, jsClass)", /*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n * Creates a Char with the specified
[code].\n */\n * @sample samples.text.Chars.charFromCode\n
*/\n @OptIn(ExperimentalUnsignedTypes::class)\n @ExperimentalStdlibApi\n @SinceKotlin("1.4")\n @kotlin.inter
nal.InlineOnly\n public actual inline fun Char(code: UShort): Char {\n return code.toInt().toChar()\n }\n", /*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.coroutines\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n @SinceKotlin("1.3")\n @JsName("CoroutineImpl")\n
ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?>
{\n protected var state = 0\n protected var exceptionState = 0\n protected var result: Any? = null\n protected
var exception: Throwable? = null\n protected var finallyPath: Array<Int>? = null\n\n public override val context:
CoroutineContext = resultContinuation.context\n\n private var intercepted_: Continuation<Any?>? = null\n\n
public fun intercepted(): Continuation<Any?> =\n intercepted_ ?:
(context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n .also { intercepted_ = it }\n\n
override fun resumeWith(result: Result<Any?>) {\n var current = this\n var currentResult: Any? =
result.getOrNull()\n var currentException: Throwable? = result.exceptionOrNull()\n // This loop unrolls
recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n while (true) {\n
with(current) {\n val completion = resultContinuation\n // Set result and exception fields in
the current continuation\n if (currentException == null) {\n this.result = currentResult\n
 } else {\n state = exceptionState\n exception = currentException\n }\n\n
try {\n val outcome = doResume()\n if (outcome === COROUTINE_SUSPENDED)\n return\n currentResult = outcome\n currentException = null\n } catch (exception:
dynamic) {\n // Catch all exceptions\n currentResult = null\n currentException =
exception.unsafeCast<Throwable>()\n }\n releaseIntercepted() // this state machine instance is
terminating\n\n if (completion is CoroutineImpl) {\n // unrolling recursion via loop\n
current = completion\n } else {\n // top-level completion reached -- invoke and return\n
currentException?.let {\n completion.resumeWithException(it)\n } ?:\n
completion.resume(currentResult)\n return\n }\n }\n }\n }\n\n private fun
releaseIntercepted() {\n val intercepted = intercepted_ \n if (intercepted != null && intercepted != this) {\n
context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n }\n this.intercepted_
= CompletedContinuation // just in case\n }\n\n protected abstract fun doResume(): Any?\n}\n\ninternal object
CompletedContinuation : Continuation<Any?> {\n override val context: CoroutineContext\n get() =
error("This continuation is already complete")\n\n override fun resumeWith(result: Result<Any?>) {\n
error("This continuation is already complete")\n }\n\n override fun toString(): String = "This continuation is
already complete"\n}\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

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license/LICENSE.txt file.\n *\n\n@file:Suppress("\UNCHECKED_CAST",
"\RedundantVisibilityModifier")\n\npackage kotlin\n\nimport kotlin.contracts.*\nimport
kotlin.internal.InlineOnly\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmName\n\n/**\n * A discriminated
union that encapsulates a successful outcome with a value of type [T]\n * or a failure with an arbitrary [Throwable]
exception.\n
*\n\n@Suppress("\NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n\n@SinceKotlin("1.3")\n
\npublic inline class Result<out T> @PublishedApi internal constructor(\n @PublishedApi\n internal val value:
Any?)\n : Serializable {\n // discovery\n\n /**\n * Returns `true` if this instance represents a successful
outcome.\n * In this case [isFailure] returns `false`.\n *\n public val isSuccess: Boolean get() = value !is
Failure\n\n /**\n * Returns `true` if this instance represents a failed outcome.\n * In this case [isSuccess]
returns `false`.\n *\n public val isFailure: Boolean get() = value is Failure\n\n // value & exception
retrieval\n\n /**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or
`null`\n * if it is [failure][Result.isFailure].\n *\n * This function is a shorthand for `getOrElse { null }` (see
[getOrElse]) or\n * `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n *\n @InlineOnly\n public
inline fun getOrNull(): T? =\n when {\n isFailure -> null\n else -> value as T\n }\n\n /**\n
* Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null`\n * if it
is [success][isSuccess].\n *\n * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })`
(see [fold]).\n *\n public fun exceptionOrNull(): Throwable? =\n when (value) {\n is Failure ->
value.exception\n else -> null\n }\n\n /**\n * Returns a string `Success(v)` if this instance represents
[success][Result.isSuccess]\n * where `v` is a string representation of the value or a string `Failure(x)` if\n * it
is [failure][isFailure] where `x` is a string representation of the exception.\n *\n public override fun toString():
String =\n when (value) {\n is Failure -> value.toString() // "Failure($exception)"\n else ->
"Success($value)"\n }\n\n // companion with constructors\n\n /**\n * Companion object for [Result]
class that contains its constructor functions\n * [success] and [failure].\n *\n public companion object {\n
/**\n * Returns an instance that encapsulates the given [value] as successful value.\n *\n
*\n\n@Suppress("\INAPPLICABLE_JVM_NAME")\n @InlineOnly\n @JvmName("\success")\n public
inline fun <T> success(value: T): Result<T> =\n Result(value)\n\n /**\n * Returns an instance that
encapsulates the given [Throwable] [exception] as failure.\n *\n
*\n\n@Suppress("\INAPPLICABLE_JVM_NAME")\n @InlineOnly\n @JvmName("\failure")\n public
inline fun <T> failure(exception: Throwable): Result<T> =\n Result(createFailure(exception))\n }\n\n
\ninternal class Failure(\n @JvmField\n val exception: Throwable\n): Serializable {\n override fun
equals(other: Any?): Boolean = other is Failure && exception == other.exception\n override fun hashCode():
Int = exception.hashCode()\n override fun toString(): String = "Failure($exception)"\n }\n\n/**\n *
Creates an instance of internal marker [Result.Failure] class to\n * make sure that this class is not exposed in ABI.\n
*\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\ninternal fun createFailure(exception: Throwable): Any =\n
Result.Failure(exception)\n\n/**\n * Throws exception if the result is failure. This internal function minimizes\n *
inlined bytecode for [getOrThrow] and makes sure that in the future we can\n * add some exception-augmenting
logic here (if needed).\n *\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\ninternal fun Result<*>.throwOnFailure() {\n
if (value is Result.Failure) throw value.exception\n}\n\n/**\n * Calls the specified function [block] and returns its
encapsulated result if invocation was successful,\n * catching any [Throwable] exception that was thrown from the
[block] function execution and encapsulating it as a failure.\n *\n\n@InlineOnly\n\n@SinceKotlin("1.3")\n\npublic
inline fun <R> runCatching(block: () -> R): Result<R> {\n return try {\n Result.success(block())\n } catch
(e: Throwable) {\n Result.failure(e)\n }\n}\n\n/**\n * Calls the specified function [block] with `this` value as
its receiver and returns its encapsulated result if invocation was successful,\n * catching any [Throwable] exception
that was thrown from the [block] function execution and encapsulating it as a failure.\n
*\n\n\n@InlineOnly\n\n@SinceKotlin("1.3")\n\npublic inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {\n
return try {\n Result.success(block())\n } catch (e: Throwable) {\n Result.failure(e)\n }\n}\n\n// --
extensions ---\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or

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exceptionOrNull() {\n null -> this\n else -> runCatching { transform(exception) }\n } \n} \n \n / / "peek"
onto value/exception and pipe \n \n / / * \n * Performs the given [action] on the encapsulated [Throwable] exception if
this instance represents [failure][Result.isFailure]. \n * Returns the original `Result` unchanged. \n
* \n @InlineOnly \n @SinceKotlin("1.3") \n public inline fun <T> Result<T>.onFailure(action: (exception:
Throwable) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT_MOST_ONCE) \n
} \n exceptionOrNull()?.let { action(it) } \n return this \n } \n \n / / * \n * Performs the given [action] on the
encapsulated value if this instance represents [success][Result.isSuccess]. \n * Returns the original `Result`
unchanged. \n * \n @InlineOnly \n @SinceKotlin("1.3") \n public inline fun <T> Result<T>.onSuccess(action: (value:
T) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT_MOST_ONCE) \n
} \n if (isSuccess) action(value as T) \n return this \n } \n \n / / ----- \n " / * \n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file. \n * \n \n package kotlin.coroutines \n \n import
kotlin.contracts. * \n import kotlin.coroutines.intrinsics. * \n import kotlin.internal.InlineOnly \n \n / * \n * Interface
representing a continuation after a suspension point that returns a value of type `T`. \n
* \n @SinceKotlin("1.3") \n public interface Continuation<in T> {\n / * \n * The context of the coroutine that
corresponds to this continuation. \n * \n public val context: CoroutineContext \n \n / * \n * Resumes the
execution of the corresponding coroutine passing a successful or failed [result] as the \n * return value of the last
suspension point. \n * \n public fun resumeWith(result: Result<T>) \n } \n \n / * \n * Classes and interfaces marked
with this annotation are restricted when used as receivers for extension \n * `suspend` functions. These `suspend`
extensions can only invoke other member or extension `suspend` functions on this particular \n * receiver and are
restricted from calling arbitrary suspension functions. \n
* \n @SinceKotlin("1.3") \n @Target(AnnotationTarget.CLASS) \n @Retention(AnnotationRetention.BINARY) \n pu
blic annotation class RestrictsSuspension \n \n / * \n * Resumes the execution of the corresponding coroutine passing
[value] as the return value of the last suspension point. \n * \n @SinceKotlin("1.3") \n @InlineOnly \n public inline
fun <T> Continuation<T>.resume(value: T): Unit = \n resumeWith(Result.success(value)) \n \n / * \n * Resumes the
execution of the corresponding coroutine so that the [exception] is re-thrown right after the \n * last suspension
point. \n * \n @SinceKotlin("1.3") \n @InlineOnly \n public inline fun <T>
Continuation<T>.resumeWithException(exception: Throwable): Unit = \n
resumeWith(Result.failure(exception)) \n \n / * \n * Creates a [Continuation] instance with the given [context] and
implementation of [resumeWith] method. \n * \n @SinceKotlin("1.3") \n @InlineOnly \n public inline fun <T>
Continuation(\n context: CoroutineContext, \n crossinline resumeWith: (Result<T>) -> Unit \n): Continuation<T>
= \n object : Continuation<T> {\n override val context: CoroutineContext \n get() = context \n \n
override fun resumeWith(result: Result<T>) = \n resumeWith(result) \n } \n \n / * \n * Creates a coroutine
without a receiver and with result type [T]. \n * This function creates a new, fresh instance of suspendable
computation every time it is invoked. \n * \n * To start executing the created coroutine, invoke `resume(Unit)` on the
returned [Continuation] instance. \n * The [completion] continuation is invoked when the coroutine completes with a
result or an exception. \n * Subsequent invocation of any resume function on the resulting continuation will produce
an [IllegalStateException]. \n * \n @SinceKotlin("1.3") \n @Suppress("UNCHECKED_CAST") \n public fun <T>
(suspend () -> T).createCoroutine(\n completion: Continuation<T> \n): Continuation<Unit> = \n
SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED) \n \n / * \n
* Creates a coroutine with receiver type [R] and result type [T]. \n * This function creates a new, fresh instance of
suspendable computation every time it is invoked. \n * \n * To start executing the created coroutine, invoke
`resume(Unit)` on the returned [Continuation] instance. \n * The [completion] continuation is invoked when the
coroutine completes with a result or an exception. \n * Subsequent invocation of any resume function on the resulting
continuation will produce an [IllegalStateException]. \n
* \n @SinceKotlin("1.3") \n @Suppress("UNCHECKED_CAST") \n public fun <R, T> (suspend R.() ->
T).createCoroutine(\n receiver: R, \n completion: Continuation<T> \n): Continuation<Unit> = \n
SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),

```

COROUTINE\_SUSPENDED)\n\n/\*\*\n \* Starts a coroutine without a receiver and with result type [T].\n \* This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\n \* The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n\n \*^\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED\_CAST")\npublic fun <T> (suspend () -> T).startCoroutine(\n completion: Continuation<T>)\n) {\n createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/\*\*\n \* Starts a coroutine with receiver type [R] and result type [T].\n \* This function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\n \* The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n\n \*^\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED\_CAST")\npublic fun <R, T> (suspend R.() -> T).startCoroutine(\n receiver: R,\n completion: Continuation<T>)\n) {\n createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n/\*\*\n \* Obtains the current continuation instance inside suspend functions and suspends\n \* the currently running coroutine.\n \* In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously in\n \* the same stack-frame where the suspension function is run or asynchronously later in the same thread or\n \* from a different thread of execution. Subsequent invocation of any resume function will produce an [IllegalStateException].\n\n \*^\n@SinceKotlin("1.3")\n@InlineOnly\npublic suspend inline fun <T> suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {\n contract { callsInPlace(block, InvocationKind.EXACTLY\_ONCE) }\n return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> -> \n val safe = SafeContinuation(c.intercepted())\n block(safe)\n safe.getOrThrow()\n }\n}\n\n/\*\*\n \* Returns the context of the current coroutine.\n\n \*^\n@SinceKotlin("1.3")\n@Suppress("WRONG\_MODIFIER\_TARGET")\n@InlineOnly\npublic suspend inline val coroutineContext: CoroutineContext\n get() {\n throw NotImplementedError("Implemented as intrinsic")\n }\n}, /\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n \*/\npackage kotlin.coroutines.intrinsics\nimport kotlin.coroutines.\*\nimport kotlin.internal.InlineOnly\n\n/\*\*\n \* Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first suspension.\n \* Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE\_SUSPENDED] if it suspends.\n \* In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\n \* The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n \* be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n \* context is established.\n\n \* This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n \* coroutine using a reference to the suspending function.\n\n \*^\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual inline fun <T> (suspend () -> T).startCoroutineUninterceptedOrReturn(\n completion: Continuation<T>)\n): Any? = this.asDynamic()(completion, false)\n\n/\*\*\n \* Starts an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension.\n \* Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE\_SUSPENDED] if it suspends.\n \* In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\n \* The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n \* be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n \* context is established.\n\n \* This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n \* coroutine using a reference to the suspending function.\n\n \*^\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual inline fun <R, T> (suspend R.() -> T).startCoroutineUninterceptedOrReturn(\n receiver: R,\n completion: Continuation<T>)\n): Any? = this.asDynamic()(receiver, completion, false)\n\n \*^\n@SinceKotlin("1.3")\n@InlineOnly\ninternal actual inline fun <R, P, T> (suspend R.(P) -> T).startCoroutineUninterceptedOrReturn(\n receiver: R,\n param: P,\n completion: Continuation<T>)\n): Any? = this.asDynamic()(receiver, param, completion, false)\n\n/\*\*\n \* Creates unintercepted coroutine without

receiver and with result type [T].  
 \* This function creates a new, fresh instance of suspendable computation every time it is invoked.  
 \* To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.  
 \* The [completion] continuation is invoked when coroutine completes with result or exception.  
 \* This function returns unintercepted continuation.  
 \* Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].  
 \* It is the invoker's responsibility to ensure that a proper invocation context is established.  
 \* Note that [completion] of this function may get invoked in an arbitrary context.  
 \* [Continuation.intercepted] can be used to acquire the intercepted continuation.  
 \* Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and [completion] happens in the invocation context established by [ContinuationInterceptor].  
 \* Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

@SinceKotlin("1.3")
public actual fun <T> (suspend () -> T).createCoroutineUnintercepted(
 completion: Continuation<T>): Continuation<Unit> =
 // Kotlin/JS suspend lambdas have an extra parameter `suspended`
 if (this.asDynamic().length == 2) {
 // When `suspended` is true the continuation is created, but not executed
 this.asDynamic()(completion, true)
 } else {
 createCoroutineFromSuspendFunction(completion) {
 this.asDynamic()(completion)
 }
 }


```

\* Creates unintercepted coroutine with receiver type [R] and result type [T].  
 \* This function creates a new, fresh instance of suspendable computation every time it is invoked.  
 \* To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.  
 \* The [completion] continuation is invoked when coroutine completes with result or exception.  
 \* This function returns unintercepted continuation.  
 \* Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].  
 \* It is the invoker's responsibility to ensure that a proper invocation context is established.  
 \* Note that [completion] of this function may get invoked in an arbitrary context.  
 \* [Continuation.intercepted] can be used to acquire the intercepted continuation.  
 \* Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and [completion] happens in the invocation context established by [ContinuationInterceptor].  
 \* Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

@SinceKotlin("1.3")
public actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(
 receiver: R,
 completion: Continuation<T>): Continuation<Unit> =
 // Kotlin/JS suspend lambdas have an extra parameter `suspended`
 if (this.asDynamic().length == 3) {
 // When `suspended` is true the continuation is created, but not executed
 this.asDynamic()(receiver, completion, true)
 } else {
 createCoroutineFromSuspendFunction(completion) {
 this.asDynamic()(receiver, completion)
 }
 }


```

\* Intercepts this continuation with [ContinuationInterceptor].  
 \* This function shall be used on the immediate result of [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn], in which case it checks for [ContinuationInterceptor] in the continuation's [context][Continuation.context], invokes [ContinuationInterceptor.interceptContinuation], caches and returns the result.  
 \* If this function is invoked on other [Continuation] instances it returns `this` continuation unchanged.

```

@SinceKotlin("1.3")
public actual fun <T> Continuation<T>.intercepted(): Continuation<T> =
 (this as? CoroutineImpl)?.intercepted() ?:
 this


```

```

private inline fun <T> createCoroutineFromSuspendFunction(
 completion: Continuation<T>,
 crossinline block: () -> Any?): Continuation<Unit> {
 @Suppress("UNCHECKED_CAST")
 return object : CoroutineImpl(completion as Continuation<Any?>) {
 override fun doResume(): Any? {
 exception?.let { throw it }
 return block()
 }
 }
}


```

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 \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.  
 \* package kotlin.js  
 \* Mirrors signature from JS IR BE  
 \* Used for  
 \* js.translator/testData/box/number/mulInt32.kt  
 \* @library  
 \* @JsName("imulEmulated")  
 \* @Suppress("UNUSED\_PARAMETER")  
 \* internal fun imul(x: Int, y: Int): Int =

```

definedExternally\n\n@Suppress("\NOTHING_TO_INLINE")\n\ninternal inline fun isArrayish(o: dynamic) =
js("\Kotlin").isArrayish(o)\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\n// NOTE: Do not author your exceptions as they are written in
this file, instead use this template:\n\npublic open class MyException : Exception {\n constructor() : super()\n constructor(message: String?) : super(message)\n constructor(message: String?, cause: Throwable?) :
super(message, cause)\n constructor(cause: Throwable?) : super(cause)\n}\n\n// TODO: remove primary
constructors, make all secondary\n\n@Suppress("\USELESS_ELVIS_RIGHT_IS_NULL")\n\npublic
actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null)
{\n actual constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual
constructor(cause: Throwable?) : this(undefin
cause)\n}\n\n@Suppress("\USELESS_ELVIS_RIGHT_IS_NULL")\n\npublic actual open class Exception actual
constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin, cause)\n}\n\npublic actual open class RuntimeException actual constructor(message:
String?, cause: Throwable?) : Exception(message, cause) {\n actual constructor() : this(null, null)\n actual
constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefin,
cause)\n}\n\npublic actual open class IllegalArgumentException actual constructor(message: String?, cause:
Throwable?) : RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n actual
constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefin,
cause)\n}\n\npublic actual open class IllegalStateException actual constructor(message: String?, cause: Throwable?)
: RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n actual constructor(message:
String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefin, cause)\n}\n\npublic actual
open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {\n actual
constructor() : this(null)\n}\n\npublic actual open class ConcurrentModificationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin, cause)\n}\n\npublic actual open class UnsupportedOperationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin, cause)\n}\n\npublic actual open class NumberFormatException actual
constructor(message: String?) : IllegalArgumentException(message) {\n actual constructor() :
this(null)\n}\n\npublic actual open class NullPointerException actual constructor(message: String?) :
RuntimeException(message) {\n actual constructor() : this(null)\n}\n\npublic actual open class
ClassCastException actual constructor(message: String?) : RuntimeException(message) {\n actual constructor() :
this(null)\n}\n\npublic actual open class AssertionError\n\n@SinceKotlin("1.4")\n\nconstructor(message: String?,
cause: Throwable?) : Error(message, cause) {\n actual constructor() : this(null)\n constructor(message: String?) :
this(message, null)\n actual constructor(message: Any?) : this(message.toString(), message as?
Throwable)\n}\n\npublic actual open class NoSuchElementException actual constructor(message: String?) :
RuntimeException(message) {\n actual constructor() : this(null)\n}\n\n@SinceKotlin("1.3")\n\npublic actual open
class ArithmeticException actual constructor(message: String?) : RuntimeException(message) {\n actual
constructor() : this(null)\n}\n\npublic actual open class NoWhenBranchMatchedException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin, cause)\n}\n\npublic actual open class UninitializedPropertyAccessException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin, cause)\n}\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is

```

```

governed by the Apache 2.0 license\n * that can be found in the license/LICENSE.txt file.\n
\n\n@file:Suppress(\`UNUSED_PARAMETER\`)\n\npackage kotlin.js\n\n@kotlin.internal.InlineOnly\n\ninternal inline fun jsDeleteProperty(obj: Any, property: Any) {\n js(\`delete\nobj[property]\`)}\n\n@kotlin.internal.InlineOnly\n\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\njs(\`lhs | rhs\`).unsafeCast<Int>()\n\n/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language\ncontributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt file.\n */\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit same as of the\n[sign] value.\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin("1.2")\n\npublic actual fun Double.withSign(sign: Double): Double {\n val thisSignBit =\njs(\`Kotlin\`).doubleSignBit(this).unsafeCast<Int>()\n val newSignBit =\njs(\`Kotlin\`).doubleSignBit(sign).unsafeCast<Int>()\n return if (thisSignBit == newSignBit) this else -\nthis}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point "double format" bit layout.\n */\n@SinceKotlin("1.2")\n\n@library("doubleToBits")\n\npublic actual fun Double.toBits(): Long =\ndefinedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point "double format" bit layout,\n * preserving `NaN` values exact layout.\n */\n@SinceKotlin("1.2")\n\n@library("doubleToRawBits")\n\npublic actual fun Double.toRawBits(): Long =\ndefinedExternally\n\n/**\n * Returns the [Double] value corresponding to a given bit representation.\n */\n@SinceKotlin("1.2")\n\n@kotlin.internal.InlineOnly\n\npublic actual inline fun Double.Companion.fromBits(bits:\nLong): Double = js(\`Kotlin\`).doubleFromBits(bits).unsafeCast<Double>()\n\n/**\n * Returns a bit representation\nof the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point "single format" bit\nlayout.\n * Note that in Kotlin/JS [Float] range is wider than "single format" bit layout can represent,\n * so\nsome [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n@SinceKotlin("1.2")\n\n@library("floatToBits")\n\npublic actual fun Float.toBits(): Int =\ndefinedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according\nto the IEEE 754 floating-point "single format" bit layout,\n * preserving `NaN` values exact layout.\n * Note\nthat in Kotlin/JS [Float] range is wider than "single format" bit layout can represent,\n * so\nsome [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n@SinceKotlin("1.2")\n\n@library("floatToRawBits")\n\npublic actual fun Float.toRawBits(): Int =\ndefinedExternally\n\n/**\n * Returns the [Float] value corresponding to a given bit representation.\n */\n@SinceKotlin("1.2")\n\n@kotlin.internal.InlineOnly\n\npublic actual inline fun Float.Companion.fromBits(bits:\nInt): Float =\njs(\`Kotlin\`).floatFromBits(bits).unsafeCast<Float>()\n\n@Suppress(\`NOTHING_TO_INLINE\`)\n\ninternal inline fun Long(low: Int, high: Int) = js(\`Kotlin\`).Long.fromBits(low, high).unsafeCast<Long>()\n\ninternal inline val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()\n\ninternal inline val Long.high: Int get()\n= this.asDynamic().getHighBits().unsafeCast<Int>()\n\n/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin\nProgramming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\nfound in the license/LICENSE.txt file.\n */\n\nimport kotlin.reflect.KClass\n\n@PublishedApi\n\ninternal fun <T : Annotation> KClass<*>.findAssociatedObject(@Suppress(\`UNUSED_PARAMETER\`) annotationClass:\nKClass<T>): Any? {\n // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.\nreturn null}\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Long] value in the specified [radix].\n * \n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin("1.2")\n\npublic actual fun Long.toString(radix: Int): String =\nasDynamic().toString(checkRadix(radix))\n\n/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming

```

```

Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * \n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED
by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport
kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n\n/**\n * Reverses elements in the list in-
place.\n * \n\npublic actual fun <T> MutableList<T>.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if
(midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n
 this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n"/\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n\npackage
kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.js.*\n\n\n/**\n * Returns a
character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char
sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n * \n\npublic actual fun
CharSequence.elementAt(index: Int): Char {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, length: $length")} }\n}\n\n"/\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n * \n\npackage kotlin.collections\n\n/\n// NOTE: THIS
FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.js.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n\n/**\n * Returns an element at the given [index] or throws
an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n * \n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int):
UInt {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n * \n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int):
ULong {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n * \n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int):
UByte {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n * \n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int):
UShort {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n * \n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.asList(): List<UInt> {\n
return object : AbstractList<UInt>(), RandomAccess {\n override val size: Int get() = this@asList.size\n
 override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UInt): Boolean =
this@asList.contains(element)\n override fun get(index: Int): UInt {\n
 AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun
indexOf(element: UInt): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UInt)
return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UInt): Int
{\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UInt) return -1\n return
this@asList.lastIndexOf(element)\n }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n * \n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong>
{\n return object : AbstractList<ULong>(), RandomAccess {\n override val size: Int get() = this@asList.size\n

```

```

 override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: ULong):
Boolean = this@asList.contains(element)\n override fun get(index: Int): ULong {\n
AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun
indexOf(element: ULong): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is
ULong) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element:
ULong): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is ULong) return -1\n
 return this@asList.lastIndexOf(element)\n }\n}\n\n/**\n * Returns a [List] that wraps the original
array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList():
List<UByte> {\n return object : AbstractList<UByte>(), RandomAccess {\n override val size: Int get() =
this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun
contains(element: UByte): Boolean = this@asList.contains(element)\n override fun get(index: Int): UByte {\n
 AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun
indexOf(element: UByte): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is
UByte) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element:
UByte): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UByte) return -1\n
 return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort>
{\n return object : AbstractList<UShort>(), RandomAccess {\n override val size: Int get() = this@asList.size\n
 override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UShort):
Boolean = this@asList.contains(element)\n override fun get(index: Int): UShort {\n
 AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun
indexOf(element: UShort): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is
UShort) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element:
UShort): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UShort) return -1\n
 return this@asList.lastIndexOf(element)\n }\n }\n}\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n@file: Suppress("DEPRECATION_ERROR")\npackage
jquery.ui\n\n//jquery UI\nimport jquery.JQuery\nimport kotlin.js.Json\n\n@Deprecated("Use declarations from
'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level =
DeprecationLevel.ERROR)\npublic inline fun JQuery.buttonset(): JQuery =
asDynamic().buttonset()\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-
jquery' package instead.", level = DeprecationLevel.ERROR)\npublic inline fun JQuery.dialog(): JQuery =
asDynamic().dialog()\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-
jquery' package instead.", level = DeprecationLevel.ERROR)\npublic inline fun JQuery.dialog(params: Json):
JQuery = asDynamic().dialog(params)\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-
externals/kotlin-js-jquery' package instead.", level = DeprecationLevel.ERROR)\npublic inline fun
JQuery.dialog(mode: String, param: String): Any? = asDynamic().dialog(mode, param)\n\n@Deprecated("Use
declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level =
DeprecationLevel.ERROR)\npublic inline fun JQuery.dialog(mode: String): JQuery =
asDynamic().dialog(mode)\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-
js-jquery' package instead.", level = DeprecationLevel.ERROR)\npublic inline fun JQuery.dialog(mode: String,
param: String, value: Any?): JQuery = asDynamic().dialog(mode, param, value)\n\n@Deprecated("Use declarations
from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level =
DeprecationLevel.ERROR)\npublic inline fun JQuery.button(): JQuery =
asDynamic().button()\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-
jquery' package instead.", level = DeprecationLevel.ERROR)\npublic inline fun JQuery.accordion(): JQuery =
asDynamic().accordion()\n\n@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-
jquery' package instead.", level = DeprecationLevel.ERROR)\npublic inline fun JQuery.draggable(params: Json):

```



```

JQuery = asDynamic().draggable(params)\n\n@Deprecated("\n\nUse declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.", level = DeprecationLevel.ERROR)\n\npublic inline fun
JQuery.selectable(): JQuery = asDynamic().selectable()\n\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\npublic actual fun interface Comparator<T> {\n
@JsName("compare")\n public actual fun compare(a: T, b: T): Int\n}\n\n", /*\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n\nimport
kotlin.annotation.AnnotationTarget.*\n\n\n@Target(FUNCTION)\n\n@Deprecated("\n\nUse inline extension function with
body using dynamic")\n\npublic annotation class nativeGetter\n\n\n@Target(FUNCTION)\n\n@Deprecated("\n\nUse inline
extension function with body using dynamic")\n\npublic annotation class
nativeSetter\n\n\n@Target(FUNCTION)\n\n@Deprecated("\n\nUse inline extension function with body using
dynamic")\n\npublic annotation class nativeInvoke\n\n\n@Target(CLASS, FUNCTION, PROPERTY)\n\n\ninternal
annotation class library(public val name: String = "")\n\n\n@Target(CLASS)\n\n\ninternal annotation class
marker\n\n\n/*\n * Gives a declaration (a function, a property or a class) specific name in JavaScript.\n * This
may be useful in the following cases:\n * * There are two functions for which the compiler gives same name in
JavaScript, you can\n * mark one with `@JsName(...)` to prevent the compiler from reporting error.\n * * You
are writing a JavaScript library in Kotlin. The compiler produces mangled names\n * for functions with
parameters, which is unnatural for usual JavaScript developer.\n * You can put `@JsName(...)` on functions you
want to be available from JavaScript.\n * * For some reason you want to rename declaration, e.g. there's common
term in JavaScript\n * for a concept provided by the declaration, which is uncommon in Kotlin.\n *\n *
Example:\n *\n * ``` kotlin\n * class Person(val name: String) {\n * fun hello() {\n * println("Hello
$name!")\n * }\n * }\n * @JsName("helloWithGreeting")\n * fun hello(greeting: String) {\n *
println("$greeting $name!")\n * }\n * }\n * ```\n *\n * @property name the name which compiler uses both for
declaration itself and for all references to the declaration.\n * It's required to denote a valid JavaScript
identifier.\n *\n * @Retention(AnnotationRetention.BINARY)\n\n@Target(CLASS, FUNCTION, PROPERTY,
CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\n\npublic actual annotation class JsName(actual
val name: String)\n\n\n/*\n * Denotes an `external` declaration that must be imported from native JavaScript
library.\n *\n * The compiler produces the code relevant for the target module system, for example, in case of
CommonJS,\n * it will import the declaration via the `require(...)` function.\n *\n * The annotation can be used on
top-level external declarations (classes, properties, functions) and files.\n * In case of file (which can't be `external`)
the following rule applies: all the declarations in\n * the file must be `external`. By applying `@JsModule(...)` on a
file you tell the compiler to import a JavaScript object\n * that contain all the declarations from the file.\n *\n *
Example:\n *\n * ``` kotlin\n * @JsModule("jquery")\n * external abstract class JQuery() {\n * // some
declarations here\n * }\n * }\n * @JsModule("jquery")\n * external fun JQuery(element: Element): JQuery\n * ```\n *\n * @property import name of a module to import declaration from.\n * It is not interpreted by the Kotlin
compiler, it's passed as is directly to the target module system.\n *\n * @see JsNonModule\n *\n * @Retention(AnnotationRetention.BINARY)\n\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n\npublic
annotation class JsModule(val import: String)\n\n\n/*\n * Denotes an `external` declaration that can be used without
module system.\n *\n * By default, an `external` declaration is available regardless your target module system.\n *
However, by applying [JsModule] annotation you can make a declaration unavailable to *plain* module system.\n *
Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module
available\n * as an npm package.\n * To tell the Kotlin compiler to accept both cases, you can augment [JsModule]
with the `@JsNonModule` annotation.\n *\n * For example:\n *\n * ``` kotlin\n * @JsModule("jquery")\n *
@JsNonModule\n * @JsName("$")\n * external abstract class JQuery() {\n * // some declarations here\n * }\n *
*\n * @JsModule("jquery")\n * @JsNonModule\n * @JsName("$")\n * external fun JQuery(element: Element):
JQuery\n * ```\n *\n * @see JsModule\n *\n * @Retention(AnnotationRetention.BINARY)\n\n@Target(CLASS,
PROPERTY, FUNCTION, FILE)\n\npublic annotation class JsNonModule\n\n\n/*\n * Adds prefix to `external`

```

declarations in a source file.

JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects.

The compiler turns references to `external` declarations either to plain unprefix names (in case of `plain` modules) or to plain imports.

However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this.

You can tell the compiler to generate additional prefix before references to `external` declarations using the `@JsQualifier(...)` annotation.

Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.

Example:

```

@file:JsQualifier("my.jsPackageName") package some.kotlinPackage
external fun foo(x: Int)
external fun bar(): String

```

property value the qualifier to add to the declarations in the generated code.

It must be a sequence of valid JavaScript identifiers separated by the ``` character.

Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$.f`.

`@see JsModule`

```

@Retention(AnnotationRetention.BINARY)
@Target(AnnotationTarget.FILE)
public annotation class JsQualifier(val value: String)

```

Exports top-level declaration on JS platform.

Compiled module exposes declarations that are marked with this annotation without name mangling.

This annotation can be applied to either files or top-level declarations.

It is currently prohibited to export the following kinds of declarations:

- expect declarations
- inline functions with reified type parameters
- suspend functions
- secondary constructors without `@JsName`
- extension properties
- enum classes
- annotation classes

Signatures of exported declarations must only contain `exportable` types:

- `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`
- `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`
- `Array<exportable-type>`
- Function types with exportable parameters and return types
- `external` or `@JsExport` classes and interfaces
- Nullable counterparts of types above
- Unit return type. Must not be nullable

This annotation is experimental, meaning that restrictions mentioned above are subject to change.

```

@ExperimentalJsExport
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, FILE)
@SinceKotlin("1.3")
public actual annotation class JsExport

```

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```

package kotlin.jvm
// these are used in common generated code in stdlib
// TODO: find how to deprecate these
ones
@Target(AnnotationTarget.FIELD)
@Retention(AnnotationRetention.SOURCE)
public actual annotation class Volatile
@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)
@Retention(AnnotationRetention.SOURCE)
public actual annotation class Synchronized

```

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```

package kotlin.collections
/**
 * Provides a skeletal implementation of the [MutableCollection] interface.
 * @param E the type of elements contained in the collection. The collection is invariant in its element type.
 */
public actual abstract class AbstractMutableCollection<E> protected actual constructor() : AbstractCollection<E>(), MutableCollection<E> {
 actual abstract override fun add(element: E): Boolean
 actual override fun remove(element: E): Boolean {
 checkIsMutable()
 val iterator = iterator()
 while (iterator.hasNext()) {
 if (iterator.next() == element) {
 iterator.remove()
 return true
 }
 }
 return false
 }
 actual override fun addAll(elements: Collection<E>): Boolean {
 checkIsMutable()
 var modified = false
 for (element in elements) {
 if (add(element)) modified = true
 }
 return modified
 }
 actual override fun removeAll(elements: Collection<E>): Boolean {
 checkIsMutable()
 return (this as MutableIterable<E>).removeAll { it in elements }
 }
 actual override fun retainAll(elements: Collection<E>): Boolean {
 checkIsMutable()
 return (this as MutableIterable<E>).removeAll { it !in elements }
 }
 actual override fun clear(): Unit {
 checkIsMutable()
 val iterator = this.iterator()
 while (iterator.hasNext()) {
 iterator.next()
 iterator.remove()
 }
 }
}

```

`@JsName("toJSON")` open fun toJSON(): Any = this.toArray()

This method is called every time when a mutating method is called on this mutable collection.

Mutable collections that are built (frozen)

```

must throw `UnsupportedOperationException`.n */n internal open fun checkIsMutable(): Unit {
}n}n\n", "/*n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.n
*/n\n/*n * Based on GWT AbstractList.n * Copyright 2007 Google Inc.n*/n\n\npackage
kotlin.collections\n\n/**n * Provides a skeletal implementation of the [MutableList] interface.n */n * @param E
the type of elements contained in the list. The list is invariant in its element type.n */n\npublic actual abstract class
AbstractMutableList<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableList<E> {\n
protected var modCount: Int = 0\n\n abstract override fun add(index: Int, element: E): Unit\n abstract override
fun removeAt(index: Int): E\n abstract override fun set(index: Int, element: E): E\n\n /**n * Adds the
specified element to the end of this list.n */n * @return `true` because the list is always modified as the result
of this operation.n */n actual override fun add(element: E): Boolean {\n checkIsMutable()\n add(size,
element)\n return true\n }\n\n actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
checkIsMutable()\n var _index = index\n var changed = false\n for (e in elements) {\n
add(_index++, e)\n changed = true\n }\n return changed\n }\n\n actual override fun clear() {\n
checkIsMutable()\n removeRange(0, size)\n }\n\n actual override fun removeAll(elements: Collection<E>):
Boolean {\n checkIsMutable()\n return removeAll { it in elements }\n }\n\n actual override fun
retainAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n return removeAll { it !in elements }\n
}\n\n actual override fun iterator(): MutableIterator<E> = IteratorImpl()\n\n actual override fun
contains(element: E): Boolean = indexOf(element) >= 0\n\n actual override fun indexOf(element: E): Int {\n
for (index in 0..lastIndex) {\n if (get(index) == element) {\n return index\n }\n }\n
return -1\n }\n\n actual override fun lastIndexOf(element: E): Int {\n for (index in lastIndex downTo 0) {\n
if (get(index) == element) {\n return index\n }\n }\n return -1\n }\n\n actual
override fun listIterator(): MutableListIterator<E> = listIterator(0)\n\n actual override fun listIterator(index: Int):
MutableListIterator<E> = ListIteratorImpl(index)\n\n\n actual override fun subList(fromIndex: Int, toIndex: Int):
MutableList<E> = SubList(this, fromIndex, toIndex)\n\n /**n * Removes the range of elements from this list
starting from [fromIndex] and ending with but not including [toIndex].n */n protected open fun
removeRange(fromIndex: Int, toIndex: Int) {\n val iterator = listIterator(fromIndex)\n repeat(toIndex -
fromIndex) {\n iterator.next()\n iterator.remove()\n }\n }\n\n /**n * Compares this list with
another list instance with the ordered structural equality.n */n * @return true, if [other] instance is a [List] of
the same size, which contains the same elements in the same order.n */n override fun equals(other: Any?):
Boolean {\n if (other === this) return true\n if (other !is List<*>) return false\n\n return
AbstractList.orderedEquals(this, other)\n }\n\n /**n * Returns the hash code value for this list.n */n
override fun hashCode(): Int = AbstractList.orderedHashCode(this)\n\n\n private open inner class IteratorImpl :
MutableIterator<E> {\n /** the index of the item that will be returned on the next call to [next]() */n
protected var index = 0\n /** the index of the item that was returned on the previous call to [next]() */n * or
[ListIterator.previous]() (for `ListIterator`),n * -1 if no such item exists\n */n protected var last = -
1\n\n override fun hasNext(): Boolean = index < size\n\n override fun next(): E {\n if (!hasNext())
throw NoSuchElementException()\n last = index++\n return get(last)\n }\n\n override fun
remove() {\n check(last != -1) { "Call next() or previous() before removing element from the iterator." }\n\n
removeAt(last)\n index = last\n last = -1\n }\n }\n\n /**n * Implementation of
`MutableListIterator` for abstract lists.n */n private inner class ListIteratorImpl(index: Int) : IteratorImpl(),
MutableListIterator<E> {\n\n init {\n AbstractList.checkPositionIndex(index,
this@AbstractMutableList.size)\n this.index = index\n }\n\n override fun hasPrevious(): Boolean =
index > 0\n\n override fun nextIndex(): Int = index\n\n override fun previous(): E {\n if
(!hasPrevious()) throw NoSuchElementException()\n\n last = --index\n return get(last)\n }\n\n
override fun previousIndex(): Int = index - 1\n\n override fun add(element: E) {\n add(index, element)\n
index++\n last = -1\n }\n\n override fun set(element: E) {\n check(last != -1) { "Call
next() or previous() before updating element value with the iterator." }\n set(last, element)\n }\n }\n}

```

```

private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) :
AbstractMutableList<E>(), RandomAccess {
 private var _size: Int = 0
 init {
 AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)
 this._size = toIndex - fromIndex
 }
 override fun add(index: Int, element: E) {
 AbstractList.checkPositionIndex(index, _size)
 list.add(fromIndex + index, element)
 _size++
 }
 override fun get(index: Int): E {
 AbstractList.checkElementIndex(index, _size)
 return list[fromIndex + index]
 }
 override fun removeAt(index: Int): E {
 AbstractList.checkElementIndex(index, _size)
 val result = list.removeAt(fromIndex + index)
 _size--
 return result
 }
 override fun set(index: Int, element: E): E {
 AbstractList.checkElementIndex(index, _size)
 return list.set(fromIndex + index, element)
 }
 override val size: Int get() = _size
 internal override fun checkIsMutable(): Unit = list.checkIsMutable()
}

/*
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
/*
 * Based on GWT AbstractMap
 * Copyright 2007 Google Inc.
 */
/*
 * Package kotlin.collections
 */
/*
 * Provides a skeletal implementation of the [MutableMap] interface.
 */
/*
 * The implementor is required to implement [entries] property, which should return mutable set of map entries, and [put] function.
 */
/*
 * @param K the type of map keys. The map is invariant in its key type.
 */
/*
 * @param V the type of map values. The map is invariant in its value type.
 */
/*
 * public actual abstract class AbstractMutableMap<K, V>
 */
protected actual constructor(): AbstractMap<K, V>(), MutableMap<K, V> {
 /**
 * A mutable [Map.Entry] shared by several [Map] implementations.
 */
 internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {
 constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)
 private var _value = value
 override val value: V get() = _value
 override fun setValue(newValue: V): V {
 // Should check if the map containing this entry is mutable.
 // However, to not increase entry memory footprint it might be worthwhile not to check it here and
 // force subclasses that implement `build()` (freezing) operation to implement their own `MutableEntry`.
 this@AbstractMutableMap.checkIsMutable()
 val oldValue = this._value
 this._value = newValue
 return oldValue
 }
 override fun hashCode(): Int = entryHashCode(this)
 override fun toString(): String = entryToString(this)
 override fun equals(other: Any?): Boolean = entryEquals(this, other)
 }
 // intermediate abstract class to workaround KT-43321
 internal abstract class AbstractEntrySet<E : Map.Entry<K, V>, K, V> : AbstractMutableSet<E>() {
 final override fun contains(element: E): Boolean = containsEntry(element)
 abstract fun containsEntry(element: Map.Entry<K, V>): Boolean
 }
 actual override fun clear() {
 entries.clear()
 }
 private var _keys: MutableSet<K>? = null
 actual override val keys: MutableSet<K> get() {
 if (_keys == null) {
 _keys = object : AbstractMutableSet<K>() {
 override fun add(element: K): Boolean = throw UnsupportedOperationException("Add is not supported on keys")
 }
 this@AbstractMutableMap.clear()
 }
 override operator fun contains(element: K): Boolean = containsKey(element)
 override operator fun iterator(): MutableIterator<K> {
 val entryIterator = entries.iterator()
 return object : MutableIterator<K> {
 override fun hasNext(): Boolean = entryIterator.hasNext()
 override fun next(): K = entryIterator.next().key
 override fun remove(): Unit = entryIterator.remove()
 }
 }
 override fun remove(element: K): Boolean {
 checkIsMutable()
 if (containsKey(element)) {
 this@AbstractMutableMap.remove(element)
 }
 return true
 }
 return false
 }
 override val size: Int get() = this@AbstractMutableMap.size
 override fun checkIsMutable(): Unit = this@AbstractMutableMap.checkIsMutable()
 return _keys!!
}
actual abstract override fun put(key: K, value: V): V? {
 actual override fun putAll(from: Map<out K, V>) {
 checkIsMutable()
 for ((key, value) in from) {
 put(key, value)
 }
 }
 private var _values: MutableCollection<V>? = null
 actual override val values: MutableCollection<V> get() {
 if (_values == null) {
 _values = object : AbstractMutableCollection<V>() {
 override fun

```

```

add(element: V): Boolean = throw UnsupportedOperationException("Add is not supported on values")\n
override fun clear() = this@AbstractMutableMap.clear()\n\n override operator fun contains(element:
V): Boolean = containsValue(element)\n\n override operator fun iterator(): MutableIterator<V> {\n
 val entryIterator = entries.iterator()\n\n return object : MutableIterator<V> {\n
override fun hasNext(): Boolean = entryIterator.hasNext()\n\n override fun next(): V =
entryIterator.next().value\n\n override fun remove() = entryIterator.remove()\n\n }\n\n }\n\n override val size: Int get() = this@AbstractMutableMap.size\n\n // TODO:
should we implement them this way? Currently it's unspecified in JVM\n\n override fun equals(other:
Any?): Boolean {\n\n if (this === other) return true\n\n if (other !is Collection<*>) return
false\n\n return AbstractList.orderedEquals(this, other)\n\n }\n\n override fun
hashCode(): Int = AbstractList.orderedHashCode(this)\n\n override fun checkIsMutable(): Unit =
this@AbstractMutableMap.checkIsMutable()\n\n }\n\n }\n\n return _values!!\n\n }\n\n actual
override fun remove(key: K): V? {\n\n checkIsMutable()\n\n val iter = entries.iterator()\n\n while
(iter.hasNext()) {\n\n val entry = iter.next()\n\n val k = entry.key\n\n if (key == k) {\n\n val
value = entry.value\n\n iter.remove()\n\n return value\n\n }\n\n }\n\n return null\n\n }\n\n }\n\n /**\n
 * This method is called every time when a mutating method is called on this mutable map.\n
 * Mutable
maps that are built (frozen) must throw `UnsupportedOperationException`.\n
 * ^\n
 internal open fun
checkIsMutable(): Unit { }\n
 */\n
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contributors.\n
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license/LICENSE.txt file.\n
 */\n
 * Provides a skeletal implementation of the
[MutableSet] interface.\n
 * ^\n
 * @param E the type of elements contained in the set. The set is invariant in its
element type.\n
 * ^\n
 public actual abstract class AbstractMutableSet<E> protected actual constructor() :
AbstractMutableCollection<E>(), MutableSet<E> {\n\n
 /**\n
 * Compares this set with another set instance with
the unordered structural equality.\n
 * ^\n
 * @return `true`, if [other] instance is a [Set] of the same size, all
elements of which are contained in this set.\n
 * ^\n
 override fun equals(other: Any?): Boolean {\n\n
 if (other
=== this) return true\n\n
 if (other !is Set<*>) return false\n\n
 return AbstractSet.setEquals(this, other)\n\n
 }\n\n
 /**\n
 * Returns the hash code value for this set.\n
 * ^\n
 override fun hashCode(): Int =
AbstractSet.unorderedHashCode(this)\n
 */\n
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Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
 */\n
 * Provides a [MutableList] implementation,
which uses a resizable array as its backing storage.\n
 * ^\n
 * This implementation doesn't provide a way to manage
capacity, as backing JS array is resizeable itself.\n
 * There is no speed advantage to pre-allocating array sizes in
JavaScript, so this implementation does not include any of the\n
 * capacity and "growth increment" concepts.\n
 * ^\n
 public actual open class ArrayList<E> internal constructor(private var array: Array<Any?>) :
AbstractMutableList<E>(), MutableList<E>, RandomAccess {\n\n
 private var isReadOnly: Boolean = false\n\n
 /**\n
 * Creates an empty [ArrayList].\n
 * ^\n
 public actual constructor() : this(emptyArray()) { }\n\n
 /**\n
 * Creates an empty [ArrayList].\n
 * ^\n
 * @param initialCapacity initial capacity (ignored)\n
 * ^\n
 @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n
 public actual
constructor(initialCapacity: Int = 0) : this(emptyArray()) { }\n\n
 /**\n
 * Creates an [ArrayList] filled from the
[elements] collection.\n
 * ^\n
 public actual constructor(elements: Collection<E>) :
this(elements.toArray<Any?>()) { }\n\n
 @PublishedApi\n
 internal fun build(): List<E> {\n\n
 checkIsMutable()\n\n
 isReadOnly = true\n\n
 return this\n\n
 }\n\n
 /** Does nothing in this ArrayList
implementation. *\n
 ^\n
 public actual fun trimToSize() { }\n\n
 /** Does nothing in this ArrayList implementation.
*\n
 ^\n
 public actual fun ensureCapacity(minCapacity: Int) { }\n\n
 actual override val size: Int get() = array.size\n\n
 @Suppress("UNCHECKED_CAST")\n
 actual override fun get(index: Int): E = array[rangeCheck(index)] as E\n\n
 actual override fun set(index: Int, element: E): E {\n\n
 checkIsMutable()\n\n
 rangeCheck(index)\n\n
 @Suppress("UNCHECKED_CAST")\n
 return array[index].apply { array[index] = element } as E\n\n
 }\n\n
 actual override fun add(element: E): Boolean {\n\n
 checkIsMutable()\n\n
 array.asDynamic().push(element)\n

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 modCount++\n return true\n }\n\n actual override fun add(index: Int, element: E): Unit {\n
checkIsMutable()\n array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n modCount++\n
}\n\n actual override fun addAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n if
(elements.isEmpty()) return false\n array += elements.toArray<Any?>()\n modCount++\n
return true\n }\n\n actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
checkIsMutable()\n insertionRangeCheck(index)\n\n if (index == size) return addAll(elements)\n if
(elements.isEmpty()) return false\n when (index) {\n size -> return addAll(elements)\n 0 -> array
= elements.toArray<Any?>() + array\n else -> array = array.copyOfRange(0,
index).asDynamic().concat(elements.toArray<Any?>(), array.copyOfRange(index, size))\n }\n\n
modCount++\n return true\n }\n\n actual override fun removeAt(index: Int): E {\n checkIsMutable()\n
rangeCheck(index)\n modCount++\n return if (index == lastIndex)\n array.asDynamic().pop()\n
else\n array.asDynamic().splice(index, 1)[0]\n }\n\n actual override fun remove(element: E): Boolean {\n
checkIsMutable()\n for (index in array.indices) {\n if (array[index] == element) {\n
array.asDynamic().splice(index, 1)\n modCount++\n return true\n }\n }\n return
false\n }\n\n override fun removeRange(fromIndex: Int, toIndex: Int) {\n checkIsMutable()\n
modCount++\n array.asDynamic().splice(fromIndex, toIndex - fromIndex)\n }\n\n actual override fun
clear() {\n checkIsMutable()\n array = emptyArray()\n modCount++\n }\n\n\n actual override fun
indexOf(element: E): Int = array.indexOf(element)\n\n actual override fun lastIndexOf(element: E): Int =
array.lastIndexOf(element)\n\n override fun toString() = arrayToString(array)\n override fun toArray():
Array<Any?> = js("{}").slice.call(array)\n\n\n internal override fun checkIsMutable() {\n if (isReadOnly)
throw UnsupportedOperationException()\n }\n\n private fun rangeCheck(index: Int) = index.apply {\n
AbstractList.checkElementIndex(index, size)\n }\n\n private fun insertionRangeCheck(index: Int) = index.apply
{\n AbstractList.checkPositionIndex(index, size)\n }\n}", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun <T>
sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {\n if (getStableSortingIsSupported()) {\n
array.asDynamic().sort(comparison)\n } else {\n mergeSort(array.unsafeCast<Array<T>>(), 0,
array.lastIndex, Comparator(comparison))\n }\n}\n\ninternal fun <T> sortArrayWith(array: Array<out T>,
comparator: Comparator<in T>) {\n if (getStableSortingIsSupported()) {\n val comparison = { a: T, b: T ->
comparator.compare(a, b) }\n array.asDynamic().sort(comparison)\n } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\n }\n}\n\ninternal fun <T>
sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int, comparator: Comparator<in T>) {\n if
(fromIndex < toIndex - 1) {\n mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1, comparator)\n
}\n}\n\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\n if
(getStableSortingIsSupported()) {\n val comparison = { a: T, b: T -> a.compareTo(b) }\n
array.asDynamic().sort(comparison)\n } else {\n mergeSort(array.unsafeCast<Array<T>>(), 0,
array.lastIndex, naturalOrder())\n }\n}\n\nprivate var _stableSortingIsSupported: Boolean? = null\nprivate fun
getStableSortingIsSupported(): Boolean {\n _stableSortingIsSupported?.let { return it }\n
_stableSortingIsSupported = false\n val array = js("{}").unsafeCast<Array<Int>>()\n // known
implementations may use stable sort for arrays of up to 512 elements\n // so we create slightly more elements to
test stability\n for (index in 0 until 600) array.asDynamic().push(index)\n val comparison = { a: Int, b: Int -> (a
and 3) - (b and 3) }\n array.asDynamic().sort(comparison)\n for (index in 1 until array.size) {\n val a =
array[index - 1]\n val b = array[index]\n if ((a and 3) == (b and 3) && a >= b) return false\n }\n
_stableSortingIsSupported = true\n return true\n}\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int,
endInclusive: Int, comparator: Comparator<in T>) {\n val buffer =
arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n val result = mergeSort(array, buffer, start,
endInclusive, comparator)\n if (result !== array) {\n for (i in start..endInclusive) array[i] = result[i]\n
}\n}\n\n// Both start and end are inclusive indices.\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>,

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start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n if (start == end) {\n return array\n }\n\n val median = (start + end) / 2\n val left = mergeSort(array, buffer, start, median, comparator)\n val right = mergeSort(array, buffer, median + 1, end, comparator)\n val target = if (left == buffer) array else buffer\n\n // Merge.\n var leftIndex = start\n var rightIndex = median + 1\n for (i in start..end) {\n when {\n leftIndex <= median && rightIndex <= end -> {\n val leftValue = left[leftIndex]\n val rightValue = right[rightIndex]\n if (comparator.compare(leftValue, rightValue) <= 0) {\n target[i] = leftValue\n leftIndex++\n } else {\n target[i] = rightValue\n rightIndex++\n }\n }\n leftIndex <= median -> {\n target[i] = left[leftIndex]\n leftIndex++\n }\n else /* rightIndex <= end */ -> {\n target[i] = right[rightIndex]\n rightIndex++\n }\n }\n }\n return target\n}"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@kotlin.js.JsName("contentDeepHashCodeImpl")\ninternal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {\n if (this == null) return 0\n var result = 1\n for (element in this) {\n val elementHash = when {\n element == null -> 0\n isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n element is UByteArray -> element.contentHashCode()\n element is UShortArray -> element.contentHashCode()\n element is UIntArray -> element.contentHashCode()\n element is ULongArray -> element.contentHashCode()\n else -> element.hashCode()\n }\n result = 31 * result + elementHash\n }\n return result\n}"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninterface EqualityComparator {\n /**\n * Subclasses must override to return a value indicating whether or not two keys or values are equal.\n */\n abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n /**\n * Subclasses must override to return the hash code of a given key.\n */\n abstract fun getHashCode(value: Any?): Int\n}\n\nobject HashCode : EqualityComparator {\n override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\n override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n}\n}"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nBased on GWT AbstractHashMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap] interface.\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values] and [entries] collections.\n * Classes that extend HashMap and implement `build()` (freezing) operation have to make sure mutating methods check `checkIsMutable`.\n */\npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {\n private inner class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V> {\n override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not supported on entries")\n override fun clear() {\n this@HashMap.clear()\n }\n override fun containsEntry(element: Map.Entry<K, V>): Boolean = this@HashMap.containsEntry(element)\n override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n override fun remove(element: MutableEntry<K, V>): Boolean {\n if (contains(element)) {\n this@HashMap.remove(element.key)\n return true\n }\n return false\n }\n }\n\n override val size: Int get() = this@HashMap.size\n}\n\n/**\n * Internal implementation of the map: either string-based or hashcode-based.\n */\nprivate val internalMap: InternalMap<K, V>\nprivate val equality: EqualityComparator\n\ninternal constructor(internalMap: InternalMap<K, V>) : super() {\n this.internalMap = internalMap\n this.equality = internalMap.equality\n}\n\n/**\n * Constructs an empty [HashMap] instance.\n */\nactual constructor() : this(InternalHashMap(EqualityComparator.HashCode))\n\n/**\n * Constructs an empty [HashMap] instance.\n * @param initialCapacity the initial capacity (ignored)\n */

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* @param loadFactor the load factor (ignored)\n * \n * @throws IllegalArgumentException if the initial
capacity or load factor are negative\n * \n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n actual constructor(initialCapacity:
Int, loadFactor: Float = 0.0f) : this() {\n // This implementation of HashMap has no need of load factors or
capacities.\n require(initialCapacity >= 0) { \"Negative initial capacity: $initialCapacity\" }\n
require(loadFactor >= 0) { \"Non-positive load factor: $loadFactor\" }\n } \n\n actual constructor(initialCapacity:
Int) : this(initialCapacity, 0.0f)\n\n /**\n * Constructs an instance of [HashMap] filled with the contents of the
specified [original] map.\n * \n\n actual constructor(original: Map<out K, V>) : this() {\n
this.putAll(original)\n } \n\n actual override fun clear() {\n internalMap.clear()\n//
structureChanged(this)\n } \n\n actual override fun containsKey(key: K): Boolean =
internalMap.containsKey()\n\n actual override fun containsValue(value: V): Boolean = internalMap.any {
equality.equals(it.value, value) }\n\n private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? =
null\n actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n get() {\n if
(_entries == null) {\n _entries = createEntrySet()\n }\n return _entries!!\n }\n\n
protected open fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n actual
override operator fun get(key: K): V? = internalMap.get(key)\n\n actual override fun put(key: K, value: V): V? =
internalMap.put(key, value)\n\n actual override fun remove(key: K): V? = internalMap.remove(key)\n\n actual
override val size: Int get() = internalMap.size\n\n}\n\n/**\n * Constructs the specialized implementation of
[HashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n
*\n\n public fun <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {\n return
HashMap<String, V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\n}\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n\n * Based on GWT
HashSet\n * Copyright 2008 Google Inc.\n * \n\n package kotlin.collections\n\n /**\n * The implementation of the
[MutableSet] interface, backed by a [HashMap] instance.\n * \n\n // Classes that extend HashSet and implement
`build()` (freezing) operation\n // have to make sure mutating methods check `checkIsMutable`.\n\n public actual open
class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {\n\n internal val map: HashMap<E, Any>\n\n\n /**\n * Constructs a new empty [HashSet].\n * \n\n actual constructor() {\n map = HashMap<E, Any>()\n
}\n\n /**\n * Constructs a new [HashSet] filled with the elements of the specified collection.\n * \n\n actual
constructor(elements: Collection<E>) {\n map = HashMap<E, Any>(elements.size)\n addAll(elements)\n
}\n\n /**\n * Constructs a new empty [HashSet].\n * \n\n * @param initialCapacity the initial capacity
(ignored)\n * @param loadFactor the load factor (ignored)\n * \n\n * @throws IllegalArgumentException if the
initial capacity or load factor are negative\n * \n\n\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n actual constructor(initialCapacity:
Int, loadFactor: Float = 0.0f) {\n map = HashMap<E, Any>(initialCapacity, loadFactor)\n }\n\n actual
constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n /**\n * Protected constructor to specify the
underlying map. This is used by\n * LinkedHashSet.\n * \n\n * @param map underlying map to use.\n * \n\n\n internal constructor(map: HashMap<E, Any>) {\n this.map = map\n }\n\n actual override fun add(element:
E): Boolean {\n val old = map.put(element, this)\n return old == null\n }\n\n actual override fun clear()
{\n map.clear()\n }\n\n // public override fun clone(): Any {\n // return HashSet<E>(this)\n // }\n\n\n actual override operator fun contains(element: E): Boolean = map.containsKey(element)\n\n actual override fun
isEmpty(): Boolean = map.isEmpty()\n\n actual override fun iterator(): MutableIterator<E> =
map.keys.iterator()\n\n actual override fun remove(element: E): Boolean = map.remove(element) != null\n\n\n actual override val size: Int get() = map.size\n\n}\n\n/**\n * Creates a new instance of the specialized
implementation of [HashSet] with the specified [String] elements,\n * which elements the keys as properties of JS
object without hashing them.\n * \n\n\n public fun stringSetOf(vararg elements: String): HashSet<String> {\n return
HashSet(stringMapOf<Any>()).apply { addAll(elements) }\n}\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that

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can be found in the license/LICENSE.txt file.\n */\n\n * Based on GWT InternalHashCodeMap\n * Copyright
2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\nimport kotlin.collections.AbstractMutableMap.SimpleEntry\n\n/**\n
* A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any\n * key type.\n *\n
*\n * Implementation notes:\n *\n *\n * A key's hashCode is the index in backingMap which should contain that
key. Since several keys may\n * have the same hash, each value in hashCodeMap is actually an array containing all
entries whose\n * keys share the same hash.\n */\n\ninternal class InternalHashCodeMap<K, V>(override val equality:
EqualityComparator) : InternalMap<K, V> {\n\n private var backingMap: dynamic = createJsMap()\n override
var size: Int = 0\n private set\n\n override fun put(key: K, value: V): V? {\n val hashCode =
equality.getHashCode(key)\n val chainOrEntry = getChainOrEntryOrNull(hashCode)\n if (chainOrEntry
== null) {\n // This is a new chain, put it to the map.\n backingMap[hashCode] = SimpleEntry(key,
value)\n } else {\n if (chainOrEntry !is Array<*>) {\n // It is an entry\n val entry:
SimpleEntry<K, V> = chainOrEntry\n if (equality.equals(entry.key, key)) {\n return
entry.setValue(value)\n } else {\n backingMap[hashCode] = arrayOf(entry, SimpleEntry(key,
value))\n size++\n return null\n }\n } else {\n // Chain already
exists, perhaps key also exists.\n val chain: Array<MutableEntry<K, V>> = chainOrEntry\n val
entry = chain.findEntryInChain(key)\n if (entry != null) {\n return entry.setValue(value)\n }\n chain.asDynamic().push(SimpleEntry(key, value))\n }\n size++\n\n structureChanged(host)\n return null\n }\n\n override fun remove(key: K): V? {\n val hashCode =
equality.getHashCode(key)\n val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\n if
(chainOrEntry !is Array<*>) {\n val entry: MutableEntry<K, V> = chainOrEntry\n if
(equality.equals(entry.key, key)) {\n jsDeleteProperty(backingMap, hashCode)\n size--\n return entry.value\n } else {\n return null\n }\n } else {\n val chain:
Array<MutableEntry<K, V>> = chainOrEntry\n for (index in chain.indices) {\n val entry =
chain[index]\n if (equality.equals(key, entry.key)) {\n if (chain.size == 1) {\n chain.asDynamic().length = 0\n // remove the whole array\n jsDeleteProperty(backingMap, hashCode)\n } else {\n // splice out the entry we're
removing\n chain.asDynamic().splice(index, 1)\n }\n size--\n }\n }\n structureChanged(host)\n return entry.value\n }\n return null\n }\n\n override fun clear() {\n backingMap = createJsMap()\n size = 0\n }\n\n override fun contains(key: K):
Boolean = getEntry(key) != null\n\n override fun get(key: K): V? = getEntry(key)?.value\n\n private fun
getEntry(key: K): MutableEntry<K, V>? {\n val chainOrEntry =
getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n if (chainOrEntry !is Array<*>) {\n val entry: MutableEntry<K, V> = chainOrEntry\n if (equality.equals(entry.key, key)) {\n return
entry\n } else {\n return null\n }\n } else {\n val chain: Array<MutableEntry<K,
V>> = chainOrEntry\n return chain.findEntryInChain(key)\n }\n }\n\n private fun
Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n firstOrNull { entry ->
equality.equals(entry.key, key) }\n\n override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n\n return object : MutableIterator<MutableEntry<K, V>> {\n var state = -1 // -1 not ready, 0 - ready, 1 -
done\n val keys: Array<String> = js("Object").keys(backingMap)\n var keyIndex = -1\n var chainOrEntry: dynamic = null\n var isChain = false\n var itemIndex = -1\n var lastEntry:
MutableEntry<K, V>? = null\n\n private fun computeNext(): Int {\n if (chainOrEntry != null &&
isChain) {\n val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n if (++itemIndex < chainSize)\n return 0\n }\n if (++keyIndex < keys.size)\n {\n chainOrEntry = backingMap[keys[keyIndex]]\n isChain = chainOrEntry is Array<*>\n itemIndex = 0\n return 0\n } else {\n chainOrEntry = null\n return 1\n }\n }\n override fun hasNext(): Boolean {\n if (state == -1)\n state = computeNext()\n return state == 0\n }\n override fun next(): MutableEntry<K, V>

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setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n\n override fun
hashCode(): Int = AbstractMap.entryHashCode(this)\n\n override fun toString(): String =
AbstractMap.entryToString(this)\n\n override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this,
other)\n\n }\n}\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n\n * Based on GWT LinkedHashMap\n * Copyright 2008 Google Inc.\n */\npackage
kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based
implementation of the [MutableMap] interface, which additionally preserves the insertion order\n * of entries during
the iteration.\n *\n * The insertion order is preserved by maintaining a doubly-linked list of all of its entries.\n
*/\n\npublic actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {\n\n /**\n * The
entry we use includes next/prev pointers for a doubly-linked circular\n * list with a head node. This reduces the
special cases we have to deal with\n * in the list operations.\n *\n * Note that we duplicate the key from the
underlying hash map so we can find\n * the eldest entry. The alternative would have been to modify HashMap so
more\n * of the code was directly usable here, but this would have added some\n * overhead to HashMap, or to
reimplement most of the HashMap code here with\n * small modifications. Paying a small storage cost only if
you use\n * LinkedHashMap and minimizing code size seemed like a better tradeoff\n */\n\n private inner class
ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n\n internal var
next: ChainEntry<K, V>? = null\n\n internal var prev: ChainEntry<K, V>? = null\n\n override fun
setValue(newValue: V): V {\n\n this@LinkedHashMap.checkIsMutable()\n\n return
super.setValue(newValue)\n\n }\n\n private inner class EntrySet : AbstractEntrySet<MutableEntry<K,
V>, K, V>() {\n\n private inner class EntryIterator : MutableIterator<MutableEntry<K, V>> {\n\n // The
last entry that was returned from this iterator.\n\n private var last: ChainEntry<K, V>? = null\n\n // The
next entry to return from this iterator.\n\n private var next: ChainEntry<K, V>? = null\n\n init {\n
 next = head\n// recordLastKnownStructure(map, this)\n }\n\n override fun hasNext():
Boolean {\n\n return next != null\n }\n\n override fun next(): MutableEntry<K, V> {\n//
 checkStructuralChange(map, this)\n if (!hasNext()) throw NoSuchElementException()\n\n val
current = next!!\n last = current\n next = current.next.takeIf { it != head }\n return
current\n }\n\n override fun remove() {\n\n check(last != null)\n
 this@EntrySet.checkIsMutable()\n// checkStructuralChange(map, this)\n last!!.remove()\n
 map.remove(last!!.key)\n// recordLastKnownStructure(map, this)\n last = null\n }\n
 }\n\n override fun add(element: MutableEntry<K, V>): Boolean = throw
UnsupportedOperationException("Add is not supported on entries")\n\n override fun clear() {\n
 this@LinkedHashMap.clear()\n }\n\n override fun containsEntry(element: Map.Entry<K, V>): Boolean =
this@LinkedHashMap.containsEntry(element)\n\n override operator fun iterator():
MutableIterator<MutableEntry<K, V>> = EntryIterator()\n\n override fun remove(element: MutableEntry<K,
V>): Boolean {\n\n checkIsMutable()\n\n if (contains(element)) {\n
 this@LinkedHashMap.remove(element.key)\n return true\n }\n return false\n }\n\n override val size: Int get() = this@LinkedHashMap.size\n\n override fun checkIsMutable(): Unit =
this@LinkedHashMap.checkIsMutable()\n }\n\n /**\n * The head of the insert order chain, which is a doubly-
linked circular\n * list.\n *\n * The most recently inserted node is at the end of the chain, ie.\n * chain.prev.\n
 */\n\n private var head: ChainEntry<K, V>? = null\n\n /**\n * Add this node to the end of the chain.\n
 */\n\n private fun ChainEntry<K, V>.addToEnd() {\n\n // This entry is not in the list.\n check(next == null && prev
== null)\n\n val _head = head\n if (_head == null) {\n head = this\n next = this\n prev =
this\n } else {\n // Chain is valid.\n val _tail = checkNotNull(_head.prev)\n // Update me.\n
 prev = _tail\n next = _head\n // Update my new siblings: current head and old tail\n
 _head.prev = this\n _tail.next = this\n }\n }\n\n /**\n * Remove this node from the chain it is a part
of.\n */\n\n private fun ChainEntry<K, V>.remove() {\n\n if (this.next === this) {\n // if this is single
element, remove head\n head = null\n } else {\n if (head === this) {\n // if this is first

```

```

element, move head to next\n head = next\n }\n next!!.prev = prev\n prev!!.next =
next\n }\n next = null\n prev = null\n }\n /*\n * The hashmap that keeps track of our entries and
the chain. Note that we\n * duplicate the key here to eliminate changes to HashMap and minimize the\n * code
here, at the expense of additional space.\n */\n private val map: HashMap<K, ChainEntry<K, V>>\n\n private
var isReadOnly: Boolean = false\n\n /**\n * Constructs an empty [LinkedHashMap] instance.\n */\n actual
constructor() : super() {\n map = HashMap<K, ChainEntry<K, V>>()\n }\n\n internal
constructor(backingMap: HashMap<K, Any>) : super() {\n @Suppress("UNCHECKED_CAST") // expected
to work due to erasure\n map = backingMap as HashMap<K, ChainEntry<K, V>>\n }\n\n /**\n *
Constructs an empty [LinkedHashMap] instance.\n */\n * @param initialCapacity the initial capacity
(ignored)\n * @param loadFactor the load factor (ignored)\n */\n * @throws IllegalArgumentException if
the initial capacity or load factor are negative\n */\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n actual constructor(initialCapacity:
Int, loadFactor: Float = 0.0f) : super(initialCapacity, loadFactor) {\n map = HashMap<K, ChainEntry<K,
V>>()\n }\n\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n /**\n * Constructs an
instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n */\n actual
constructor(original: Map<out K, V>) {\n map = HashMap<K, ChainEntry<K, V>>()\n
this.putAll(original)\n }\n\n @PublishedApi\n internal fun build(): Map<K, V> {\n checkIsMutable()\n
isReadOnly = true\n return this\n }\n\n actual override fun clear() {\n checkIsMutable()\n
map.clear()\n head = null\n }\n\n // override fun clone(): Any {\n // return LinkedHashMap(this)\n //
}\n\n actual override fun containsKey(key: K): Boolean = map.containsKey(key)\n\n actual override fun
containsValue(value: V): Boolean {\n var node: ChainEntry<K, V> = head ?: return false\n do {\n if
(node.value == value) {\n return true\n }\n node = node.next!!\n } while (node !=
head)\n return false\n }\n\n override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K,
V>> = EntrySet()\n\n actual override operator fun get(key: K): V? = map.get(key)?.value\n\n actual override fun
put(key: K, value: V): V? {\n checkIsMutable()\n val old = map.get(key)\n if (old == null) {\n
val newEntry = ChainEntry(key, value)\n map.put(key, newEntry)\n newEntry.addToEnd()\n
return null\n } else {\n return old.setValue(value)\n }\n }\n\n actual override fun remove(key: K):
V? {\n checkIsMutable()\n val entry = map.remove(key)\n if (entry != null) {\n
entry.remove()\n return entry.value\n }\n return null\n }\n\n actual override val size: Int get() =
map.size\n\n internal override fun checkIsMutable() {\n if (isReadOnly) throw
UnsupportedOperationException()\n }\n}\n\n/**\n * Constructs the specialized implementation of
[LinkedHashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n
*/\n\npublic fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {\n return
LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }\n}\n\n"/\n\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/**\n * Based on GWT LinkedHashMap\n
* Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet]
interface, backed by a [LinkedHashMap] instance.\n */\n * This implementation preserves the insertion order of
elements during the iteration.\n */\n\npublic actual open class LinkedHashMap<E> : HashSet<E>, MutableSet<E>
{\n\n internal constructor(map: LinkedHashMap<E, Any>) : super(map)\n\n /**\n * Constructs a new empty
[LinkedHashSet].\n */\n actual constructor() : super(LinkedHashMap<E, Any>())\n\n /**\n * Constructs a
new [LinkedHashSet] filled with the elements of the specified collection.\n */\n actual constructor(elements:
Collection<E>) : super(LinkedHashMap<E, Any>()) {\n addAll(elements)\n }\n\n /**\n * Constructs a
new empty [LinkedHashSet].\n */\n * @param initialCapacity the initial capacity (ignored)\n * @param
loadFactor the load factor (ignored)\n */\n * @throws IllegalArgumentException if the initial capacity or
load factor are negative\n */\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity,
loadFactor))\n\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n @PublishedApi\n

```



```

RESUMED\n delegate.resumeWith(result)\n }\n else -> throw
IllegalStateException("\Already resumed")\n }\n }\n @PublishedApi\n internal actual fun
getOrThrow(): Any? {\n if (result === UNDECIDED) {\n result = COROUTINE_SUSPENDED\n return COROUTINE_SUSPENDED\n }\n val result = this.result\n return when {\n result ===
RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED
upstream\n result is Result.Failure -> throw result.exception\n else -> result // either
COROUTINE_SUSPENDED or data\n }\n }\n }"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n package
kotlin.coroutines.cancellation\n @SinceKotlin("1.4")\n public actual open class CancellationException :
IllegalStateException {\n actual constructor() : super()\n actual constructor(message: String?) : super(message)\n constructor(message: String?, cause: Throwable?) : super(message, cause)\n constructor(cause: Throwable?) :
super(cause)\n }"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n package kotlin.coroutines.js.internal\n import kotlin.coroutines.Continuation\n import
kotlin.coroutines.EmptyCoroutineContext\n @PublishedApi\n @SinceKotlin("1.3")\n internal val
EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n result.getOrThrow()\n }"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n package
kotlin.js\n /**\n * Exposes the [Date API](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\n */\n @Suppress("\NOT_DOCUMENTED")\n public external class Date() {\n public constructor(milliseconds:
Number)\n public constructor(dateString: String)\n public constructor(year: Int, month: Int)\n public
constructor(year: Int, month: Int, day: Int)\n public constructor(year: Int, month: Int, day: Int, hour: Int)\n public
constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n public constructor(year: Int, month:
Int, day: Int, hour: Int, minute: Int, second: Int)\n public constructor(year: Int, month: Int, day: Int, hour: Int,
minute: Int, second: Int, millisecond: Number)\n public fun getDate(): Int\n public fun getDay(): Int\n public
fun getFullYear(): Int\n public fun getHours(): Int\n public fun getMilliseconds(): Int\n public fun
getMinutes(): Int\n public fun getMonth(): Int\n public fun getSeconds(): Int\n public fun getTime():
Double\n public fun getTimezoneOffset(): Int\n public fun getUTCDate(): Int\n public fun
getUTCDay(): Int\n public fun getUTCFullYear(): Int\n public fun getUTCHours(): Int\n public fun
getUTCMilliseconds(): Int\n public fun getUTCMinutes(): Int\n public fun getUTCMonth(): Int\n public
fun getUTCSeconds(): Int\n public fun toDateString(): String\n public fun toISOString(): String\n public
fun toJSON(): Json\n public fun toLocaleDateString(locales: Array<String> = definedExternally, options:
LocaleOptions = definedExternally): String\n public fun toLocaleDateString(locales: String, options:
LocaleOptions = definedExternally): String\n public fun toLocaleString(locales: Array<String> =
definedExternally, options: LocaleOptions = definedExternally): String\n public fun toLocaleString(locales:
String, options: LocaleOptions = definedExternally): String\n public fun toLocaleTimeString(locales:
Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n public fun
toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n public fun
toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n public fun
toTimeString(): String\n public fun toUTCString(): String\n public companion object {\n public fun
now(): Double\n public fun parse(dateString: String): Double\n public fun UTC(year: Int, month: Int):
Double\n public fun UTC(year: Int, month: Int, day: Int): Double\n public fun UTC(year: Int, month:
Int, day: Int, hour: Int): Double\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int):
Double\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\n public
fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\n }\n public interface LocaleOptions {\n public var localeMatcher: String?\n public var timeZone:
String?\n public var hour12: Boolean?\n public var formatMatcher: String?\n public var weekday:

```

```

String?
 public var era: String?
 public var year: String?
 public var month: String?
 public var day: String?
 public var hour: String?
 public var minute: String?
 public var second: String?
 public var timeZoneName: String?
}
public inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {
 val result = js("new Object()).unsafeCast<Date.LocaleOptions>()
 init(result)
 return result
}
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 */
package kotlin.dom
import org.w3c.dom.Document
import org.w3c.dom.Element
import kotlin.internal.LowPriorityInOverloadResolution
import kotlin.dom.appendChild as newAppendElement
import kotlin.dom.createElement as newCreateElement
/** Creates a new element with the specified [name].
 * The element is initialized with the specified [init] function.
 */
@LowPriorityInOverloadResolution
@Deprecated(message = "This API is moved to another package, use 'kotlinx.dom.createElement' instead.",
 replaceWith = ReplaceWith("this.createElement(name, init)", "kotlinx.dom.createElement"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun Document.createElement(name: String, noinline init: Element.() -> Unit): Element = this.newCreateElement(name, init)
/** Appends a newly created element with the specified [name] to this element.
 * The element is initialized with the specified [init] function.
 */
@LowPriorityInOverloadResolution
@Deprecated(message = "This API is moved to another package, use 'kotlinx.dom.appendChild' instead.",
 replaceWith = ReplaceWith("this.appendChild(name, init)", "kotlinx.dom.appendChild"))
@DeprecatedSinceKotlin(warningSince = "1.4")
public inline fun Element.appendChild(name: String, noinline init: Element.() -> Unit): Element = this.newAppendElement(name, init)
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 */
package kotlin.dom
import org.w3c.dom.Element
import kotlin.internal.LowPriorityInOverloadResolution
import kotlin.dom.addClass as newAddClass
import kotlin.dom.hasClass as newHasClass
import kotlin.dom.removeClass as newRemoveClass
/** Returns true if the element has the given CSS class style in its 'class' attribute
 */
@LowPriorityInOverloadResolution
@Deprecated(message = "This API is moved to another package, use 'kotlinx.dom.hasClass' instead.",
 replaceWith = ReplaceWith("this.hasClass(cssClass)", "kotlinx.dom.hasClass"))
@DeprecatedSinceKotlin(warningSince = "1.4")
inline fun Element.hasClass(cssClass: String): Boolean = this.newHasClass(cssClass)
/** Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element
 * @return true if at least one class has been added
 */
@LowPriorityInOverloadResolution
@Deprecated(message = "This API is moved to another package, use 'kotlinx.dom.addClass' instead.",
 replaceWith = ReplaceWith("this.addClass(cssClasses)", "kotlinx.dom.addClass"))
@DeprecatedSinceKotlin(warningSince = "1.4")
inline fun Element.addClass(vararg cssClasses: String): Boolean = this.newAddClass(*cssClasses)
/** Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element
 * @return true if at least one class has been removed
 */
@LowPriorityInOverloadResolution
@Deprecated(message = "This API is moved to another package, use 'kotlinx.dom.removeClass' instead.",
 replaceWith = ReplaceWith("this.removeClass(cssClasses)", "kotlinx.dom.removeClass"))
@DeprecatedSinceKotlin(warningSince = "1.4")
inline fun Element.removeClass(vararg cssClasses: String): Boolean = this.newRemoveClass(*cssClasses)
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 */
package kotlin.dom
import org.w3c.dom.Element
import org.w3c.dom.Node
import kotlin.internal.LowPriorityInOverloadResolution
import kotlin.dom.isElement as newIsElement
import kotlin.dom.isText as newIsText
/** Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.
 */
@LowPriorityInOverloadResolution
@Deprecated(message = "This API

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is moved to another package, use 'kotlinx.dom.isText' instead.`,\n replaceWith = ReplaceWith(`this.isText`,
`kotlinx.dom.isText`)`)\n\n@DeprecatedSinceKotlin(warningSince = `1.4`)\npublic val Node.isText: Boolean\ninline get() = this.newIsText\n\n/**\n * Gets a value indicating whether this node is an [Element].\n *\n * @LowPriorityInOverloadResolution\n * @Deprecated(\n message = `This API is moved to another package,`
use 'kotlinx.dom.isElement' instead.`,\n replaceWith = ReplaceWith(`this.isElement`,
`kotlinx.dom.isElement`)`)\n\n@DeprecatedSinceKotlin(warningSince = `1.4`)\npublic val Node.isElement:
Boolean\n inline get() = this.newIsElement\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom.events\n\npublic fun EventListener(handler:
(Event) -> Unit): EventListener = EventListenerHandler(handler)\n\nprivate class EventListenerHandler(private val
handler: (Event) -> Unit) : EventListener {\n public override fun handleEvent(event: Event) {\n
handler(event)\n }\n public override fun toString(): String = "EventListenerHandler($handler)"`)\n\n"/*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
org.w3c.dom\n\npublic external interface ItemArrayLike<out T> {\n val length: Int\n fun item(index: Int):
T?\n}\n\n/**\n * Returns the view of this `ItemArrayLike<T>` collection as `List<T>`\n *\npublic fun <T>
ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {\n override val size: Int get() =
this@asList.length\n override fun get(index: Int): T = when (index) {\n in 0..lastIndex ->
this@asList.item(index).unsafeCast<T>()\n else -> throw IndexOutOfBoundsException(`index $index is not in
range [0..$lastIndex]`)`)\n }\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport
org.w3c.dom.Node\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendText as
newAppendText\nimport kotlinx.dom.clear as newClear\n\n/** Removes all the children from this node.\n *\n * @LowPriorityInOverloadResolution\n * @Deprecated(\n message = `This API is moved to another package,`
use 'kotlinx.dom.clear' instead.`,\n replaceWith = ReplaceWith(`this.clear()`),
`kotlinx.dom.clear`)`)\n\n@DeprecatedSinceKotlin(warningSince = `1.4`)\npublic inline fun Node.clear() =
this.newClear()\n\n/**\n * Creates text node and append it to the element.\n *\n * @return this element\n *\n * @LowPriorityInOverloadResolution\n * @Deprecated(\n message = `This API is moved to another package,`
use 'kotlinx.dom.appendText' instead.`,\n replaceWith = ReplaceWith(`this.appendText(text)`),
`kotlinx.dom.appendText`)`)\n\n@DeprecatedSinceKotlin(warningSince = `1.4`)\ninline fun
Element.appendText(text: String): Element = this.newAppendText(text)\n\n"/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Reinterprets this value
as a value of the [dynamic type](/docs/reference/dynamic-type.html).\n *\n * @kotlin.internal.InlineOnly\npublic
inline fun Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this value as a value of the specified type [T]
without any actual type checking.\n *\n * @kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast():
@kotlin.internal.NoInfer T = this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value of the
specified type [T] without any actual type checking.\n *\n * @kotlin.internal.DynamicExtension\n * @JsName(`unsafeCastDynamic`)`)\n * @kotlin.internal.InlineOnly\npublic
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic`
object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an
instance of [kotlin.collections.Iterable]\n *\n * @kotlin.internal.DynamicExtension\npublic operator fun
dynamic.iterator(): Iterator<dynamic> {\n val r: Any? = this\n return when {\n this[`iterator`] != null -
->\n this[`iterator`]()\n isArrayish(r) ->\n r.unsafeCast<Array<*>>().iterator()\n else ->\n
(r as Iterable<*>).iterator()\n }\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the

```



```

module\n\n@JsName("\throwNPE")\ninternal fun throwNPE(message: String) {\n throw
NullPointerException(message)\n}\n\n@JsName("\throwCCE")\ninternal fun throwCCE() {\n throw
ClassCastException("\Illegal cast")\n}\n\n@JsName("\throwISE")\ninternal fun throwISE(message: String) {\n
throw IllegalStateException(message)\n}\n\n@JsName("\throwUPAE")\ninternal fun throwUPAE(propertyName:
String) {\n throw UninitializedPropertyAccessException("\lateinit property ${propertyName} has not been
initialized")\n}\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\npackage kotlin.collections\n\n/**\n * Groups elements from the [Grouping] source by key and counts elements
in each group.\n * @return a [Map] associating the key of each group with the count of element in the group.\n
*/\n@SinceKotlin("1.1")\npublic actual fun <T, K> Grouping<T, K>.eachCount(): Map<K, Int> =\n fold(0) {
acc, _ -> acc + 1 }\n\n/**\n * Groups elements from the [Grouping] source by key and sums values provided by
the [valueSelector] function for elements in each group.\n * @return a [Map] associating the key of each group
with the count of element in the group.\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K> Grouping<T,
K>.eachSumOf(valueSelector: (T) -> Int): Map<K, Int> =\n fold(0) { acc, e -> acc + valueSelector(e)
}\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("\GroupingKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.collections\n\n/**\n * Represents a source of elements with a [keyOf] function, which can be applied to each
element to get its key.\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n
* they group elements by their keys and then fold each group with some aggregating operation.\n * It is created
by attaching `keySelector: (T) -> K` function to a source of elements.\n * To get an instance of [Grouping] use one
of `groupingBy` extension functions:\n * - [Iterable.groupingBy]\n * - [Sequence.groupingBy]\n * -
[Array.groupingBy]\n * - [CharSequence.groupingBy]\n * For the list of group-and-fold operations available,
see the [extension functions](#extension-functions) for `Grouping`.\n */\n@SinceKotlin("1.1")\npublic interface
Grouping<T, out K> {\n /** Returns an [Iterator] over the elements of the source of this grouping. */\n fun
sourceIterator(): Iterator<T>\n /** Extracts the key of an [element]. */\n fun keyOf(element: T): K\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group
sequentially,\n * passing the previously accumulated value, and the current element as arguments, and stores the
results in a new map.\n * The key for each element is provided by the [Grouping.keyOf] function.\n * @param operation function is invoked on each element with the following parameters:\n * - `key`: the key of the
group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null`
if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n
* - `first`: indicates whether it's the first `element` encountered in the group.\n * @return a [Map] associating
the key of each group with the result of aggregation of the group elements.\n * @sample
samples.collections.Grouping.aggregateByRadix\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K, R>
Grouping<T, K>.aggregate(\n operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): Map<K,
R> {\n return aggregateTo(mutableMapOf<K, R>(), operation)\n}\n\n/**\n * Groups elements from the
[Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the
previously accumulated value and the current element as arguments,\n * and stores the results in the given
[destination] map.\n * The key for each element is provided by the [Grouping.keyOf] function.\n * @param
operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group
this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's
the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n * -
`first`: indicates whether it's the first `element` encountered in the group.\n * If the [destination] map already has
a value corresponding to some key,\n * then the elements being aggregated for that key are never considered as
`first`.\n * @return the [destination] map associating the key of each group with the result of aggregation of the
group elements.\n * @sample samples.collections.Grouping.aggregateByRadixTo\n
*/\n@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T,

```

```

K>.aggregateTo(\n destination: M,\n operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R)\n: M
{\n for (e in this.sourceIterator()) {\n val key = keyOf(e)\n val accumulator = destination[key]\n
destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\n }
return destination\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the
elements of each group sequentially,\n * passing the previously accumulated value and the current element as
arguments, and stores the results in a new map.\n * An initial value of accumulator is provided by
[initialValueSelector] function.\n * \n * @param initialValueSelector a function that provides an initial value of
accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the group;\n * - `element`: the
first element being encountered in that group.\n * \n * @param operation a function that is invoked on each element
with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the
current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n
*\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n *
@sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue
*\n @SinceKotlin("1.1")\n public inline fun <T, K, R> Grouping<T, K>.fold(\n initialValueSelector: (key: K,
element: T) -> R,\n operation: (key: K, accumulator: R, element: T) -> R)\n: Map<K, R> =\n
@Suppress("UNCHECKED_CAST")\n aggregate { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and
applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the
current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of
accumulator is provided by [initialValueSelector] function.\n * \n * @param initialValueSelector a function that
provides an initial value of accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the
group;\n * - `element`: the first element being encountered in that group.\n * \n * If the [destination] map already has
a value corresponding to some key, that value is used as an initial value of\n * the accumulator for that group and the
[initialValueSelector] function is not called for that group.\n * \n * @param operation a function that is invoked on
each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * -
`accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being
accumulated.\n * \n * @return the [destination] map associating the key of each group with the result of
accumulating the group elements.\n * @sample
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo\n *\n @SinceKotlin("1.1")\n public
inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n
initialValueSelector: (key: K, element: T) -> R,\n operation: (key: K, accumulator: R, element: T) -> R)\n: M =\n
@Suppress("UNCHECKED_CAST")\n aggregateTo(destination) { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and
applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the
current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is the same
[initialValue] for each group.\n * \n * @param operation a function that is invoked on each element with the
following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the
element from the source being accumulated.\n * \n * @return a [Map] associating the key of each group with the
result of accumulating the group elements.\n * @sample
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue\n *\n @SinceKotlin("1.1")\n public
inline fun <T, K, R> Grouping<T, K>.fold(\n initialValue: R,\n operation: (accumulator: R, element: T) -> R)\n:
Map<K, R> =\n @Suppress("UNCHECKED_CAST")\n aggregate { _, acc, e, first -> operation(if (first)
initialValue else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and applies
[operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current
element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator is
the same [initialValue] for each group.\n * \n * If the [destination] map already has a value corresponding to the key
of some group,\n * that value is used as an initial value of the accumulator for that group.\n * \n * @param operation
a function that is invoked on each element with the following parameters:\n * - `accumulator`: the current value of

```

```

the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return the
[destination] map associating the key of each group with the result of accumulating the group elements.\n *
@sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo\n
*\n@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n
destination: M,\n initialValue: R,\n operation: (accumulator: R, element: T) -> R)\n): M =\n
@Suppress("UNCHECKED_CAST")\n aggregateTo(destination) { _, acc, e, first -> operation(if (first)
initialValue else acc as R, e) }\n\n**\n * Groups elements from the [Grouping] source by key and applies the
reducing [operation] to the elements of each group\n * sequentially starting from the second element of the group,\n
* passing the previously accumulated value and the current element as arguments,\n * and stores the results in a new
map.\n * An initial value of accumulator is the first element of the group.\n *\n * @param operation a function that
is invoked on each subsequent element of the group with the following parameters:\n * - `key`: the key of the group
this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the
element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the
result of accumulating the group elements.\n * @sample samples.collections.Grouping.reduceByMaxVowels\n
*\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\n operation: (key: K,
accumulator: S, element: T) -> S)\n): Map<K, S> =\n aggregate { key, acc, e, first ->\n
@Suppress("UNCHECKED_CAST")\n if (first) e else operation(key, acc as S, e)\n }\n\n**\n * Groups
elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n *
sequentially starting from the second element of the group,\n * passing the previously accumulated value and the
current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of
accumulator is the first element of the group.\n *\n * If the [destination] map already has a value corresponding to
the key of some group,\n * that value is used as an initial value of the accumulator for that group and the first
element of that group is also\n * subjected to the [operation].\n *\n * @param operation a function that is invoked on
each subsequent element of the group with the following parameters:\n * - `accumulator`: the current value of the
accumulator of the group;\n * - `element`: the element from the source being folded;\n *\n * @return the
[destination] map associating the key of each group with the result of accumulating the group elements.\n *
@sample samples.collections.Grouping.reduceByMaxVowelsTo\n *\n@SinceKotlin("1.1")\npublic inline fun <S,
T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n destination: M,\n operation: (key: K,
accumulator: S, element: T) -> S)\n): M =\n aggregateTo(destination) { key, acc, e, first ->\n
@Suppress("UNCHECKED_CAST")\n if (first) e else operation(key, acc as S, e)\n }\n\n**\n * Groups
elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.\n *\n
* If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an
initial value of the counter for that group.\n *\n * @return the [destination] map associating the key of each group
with the count of elements in the group.\n *\n * @sample samples.collections.Grouping.groupingByEachCount\n
*\n@SinceKotlin("1.1")\npublic fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
K>.eachCountTo(destination: M): M =\n foldTo(destination, 0) { acc, _ -> acc + 1 }\n\n**\n * Groups
elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements
in each group\n * to the given [destination] map.\n *\n * If the [destination] map already has a value
corresponding to the key of some group,\n * that value is used as an initial value of the sum for that group.\n *\n
* @return the [destination] map associating the key of each group with the sum of elements in the group.\n
*\n *\n@SinceKotlin("1.1")\npublic inline fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n foldTo(destination, 0) { acc, e -> acc +
valueSelector(e) }\n\n**\n * TODO: sum by long and by double overloads\n\npublic inline fun <T, K, M :
MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M
=\n foldTo(destination, 0L) { acc, e -> acc + valueSelector(e) }\n\npublic inline fun <T, K> Grouping<T,
K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n fold(0L) { acc, e -> acc +
valueSelector(e) }\n\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T,
K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n foldTo(destination, 0.0) { acc, e

```

```

-> acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) ->
Double): Map<K, Double> =\n fold(0.0) { acc, e -> acc + valueSelector(e)}\n*/\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes
the JavaScript [Math object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Math)
to Kotlin.\n */\n@Deprecated("Use top-level functions from kotlin.math package instead.", level =
DeprecationLevel.ERROR)\npublic external object Math {\n @Deprecated("Use kotlin.math.PI instead.",
ReplaceWith("PI", "kotlin.math.PI"), level = DeprecationLevel.ERROR)\n public val PI: Double\n
 @Deprecated("Use Random.nextDouble instead", ReplaceWith("kotlin.random.Random.nextDouble()",
"kotlin.random.Random"), level = DeprecationLevel.ERROR)\n public fun random(): Double\n
 @Deprecated("Use kotlin.math.abs instead.", ReplaceWith("abs(value)", "kotlin.math.abs"), level =
DeprecationLevel.ERROR)\n public fun abs(value: Double): Double\n
 @Deprecated("Use kotlin.math.acos instead.", ReplaceWith("acos(value)", "kotlin.math.acos"), level = DeprecationLevel.ERROR)\n public fun
acos(value: Double): Double\n
 @Deprecated("Use kotlin.math.asin instead.", ReplaceWith("asin(value)",
"kotlin.math.asin"), level = DeprecationLevel.ERROR)\n public fun asin(value: Double): Double\n
 @Deprecated("Use kotlin.math.atan instead.", ReplaceWith("atan(value)", "kotlin.math.atan"), level =
DeprecationLevel.ERROR)\n public fun atan(value: Double): Double\n
 @Deprecated("Use kotlin.math.atan2
instead.", ReplaceWith("atan2(y, x)", "kotlin.math.atan2"), level = DeprecationLevel.ERROR)\n public fun
atan2(y: Double, x: Double): Double\n
 @Deprecated("Use kotlin.math.cos instead.",
ReplaceWith("cos(value)", "kotlin.math.cos"), level = DeprecationLevel.ERROR)\n public fun cos(value:
Double): Double\n
 @Deprecated("Use kotlin.math.sin instead.", ReplaceWith("sin(value)", "kotlin.math.sin"),
level = DeprecationLevel.ERROR)\n public fun sin(value: Double): Double\n
 @Deprecated("Use
kotlin.math.exp instead.", ReplaceWith("exp(value)", "kotlin.math.exp"), level = DeprecationLevel.ERROR)\n
 public fun exp(value: Double): Double\n
 @Deprecated("Use maxOf or kotlin.math.max instead", level =
DeprecationLevel.ERROR)\n public fun max(vararg values: Int): Int\n
 @Deprecated("Use maxOf or
kotlin.math.max instead", level = DeprecationLevel.ERROR)\n public fun max(vararg values: Float): Float\n
 @Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)\n public fun
max(vararg values: Double): Double\n
 @Deprecated("Use minOf or kotlin.math.min instead", level =
DeprecationLevel.ERROR)\n public fun min(vararg values: Int): Int\n
 @Deprecated("Use minOf or
kotlin.math.min instead", level = DeprecationLevel.ERROR)\n public fun min(vararg values: Float): Float\n
 @Deprecated("Use minOf or kotlin.math.min instead", level = DeprecationLevel.ERROR)\n public fun
min(vararg values: Double): Double\n
 @Deprecated("Use kotlin.math.sqrt instead.",
ReplaceWith("sqrt(value)", "kotlin.math.sqrt"), level = DeprecationLevel.ERROR)\n public fun sqrt(value:
Double): Double\n
 @Deprecated("Use kotlin.math.tan instead.", ReplaceWith("tan(value)",
"kotlin.math.tan"), level = DeprecationLevel.ERROR)\n public fun tan(value: Double): Double\n
 @Deprecated("Use kotlin.math.ln instead.", ReplaceWith("ln(value)", "kotlin.math.ln"), level =
DeprecationLevel.ERROR)\n public fun log(value: Double): Double\n
 @Deprecated("Use kotlin.math.pow
instead.", ReplaceWith("base.pow(exp)", "kotlin.math.pow"), level = DeprecationLevel.ERROR)\n public fun
pow(base: Double, exp: Double): Double\n
 @Deprecated("Use kotlin.math.round instead.",
ReplaceWith("round(value)", "kotlin.math.round"), level = DeprecationLevel.ERROR)\n public fun
round(value: Number): Int\n
 @Deprecated("Use kotlin.math.floor instead.", ReplaceWith("floor(value)",
"kotlin.math.floor"), level = DeprecationLevel.ERROR)\n public fun floor(value: Number): Int\n
 @Deprecated("Use kotlin.math.ceil instead.", ReplaceWith("ceil(value)", "kotlin.math.ceil"), level =
DeprecationLevel.ERROR)\n public fun ceil(value: Number): Int\n\n
 @PublishedApi\n internal fun
trunc(value: Number): Double\n
 @PublishedApi\n internal fun sign(value: Number): Double\n\n
 @PublishedApi\n internal fun sinh(value: Double): Double\n
 @PublishedApi\n internal fun cosh(value:
Double): Double\n
 @PublishedApi\n internal fun tanh(value: Double): Double\n
 @PublishedApi\n internal fun asinh(value: Double): Double\n
 @PublishedApi\n internal fun acosh(value: Double): Double\n

```



Double): Double = nativeMath.tan(x)\n\n/\*\*\n \* Computes the arc sine of the value [x];\n \* the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n \* Special cases:\n \* - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Double): Double = nativeMath.asin(x)\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from  $0.0$  to  $\pi$  radians.\n * Special cases:\n * - acos(x) is NaN, when abs(x) > 1 or x is NaN\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acos(x: Double): Double = nativeMath.acos(x)\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n * Special cases:\n * - atan(NaN) is NaN\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan(x: Double): Double = nativeMath.atan(x)\n\n/**\n * Returns the angle theta of the polar coordinates (r, theta) that correspond\n * to the rectangular coordinates (x, y) by computing the arc tangent of the value y / x;\n * the returned value is an angle in the range from  $-\pi$  to  $\pi$  radians.\n * Special cases:\n * - atan2(0.0, 0.0) is 0.0\n * - atan2(0.0, x) is 0.0 for x > 0 and \pi for x < 0\n * - atan2(-0.0, x) is -0.0 for x > 0 and -\pi for x < 0\n * - atan2(y, +Inf) is 0.0 for 0 < y < +Inf and -0.0 for -Inf < y < 0\n * - atan2(y, -Inf) is \pi for 0 < y < +Inf and -\pi for -Inf < y < 0\n * - atan2(y, 0.0) is \pi/2 for y > 0 and -\pi/2 for y < 0\n * - atan2(+Inf, x) is \pi/2 for finite x\n * - atan2(-Inf, x) is -\pi/2 for finite x\n * - atan2(NaN, x) and atan2(y, NaN) is NaN\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)\n\n/**\n * Computes the hyperbolic sine of the value [x].\n * Special cases:\n * - sinh(NaN) is NaN\n * - sinh(+Inf) is +Inf\n * - sinh(-Inf) is -Inf\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sinh(x: Double): Double = nativeMath.sinh(x)\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n * Special cases:\n * - cosh(NaN) is NaN\n * - cosh(+Inf|-Inf) is +Inf\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cosh(x: Double): Double = nativeMath.cosh(x)\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n * Special cases:\n * - tanh(NaN) is NaN\n * - tanh(+Inf) is 1.0\n * - tanh(-Inf) is -1.0\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tanh(x: Double): Double = nativeMath.tanh(x)\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n * The returned value is y such that sinh(y) == x.\n * Special cases:\n * - asinh(NaN) is NaN\n * - asinh(+Inf) is +Inf\n * - asinh(-Inf) is -Inf\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asinh(x: Double): Double = nativeMath.asinh(x)\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n * The returned value is positive y such that cosh(y) == x.\n * Special cases:\n * - acosh(NaN) is NaN\n * - acosh(x) is NaN when x < 1\n * - acosh(+Inf) is +Inf\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acosh(x: Double): Double = nativeMath.acosh(x)\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n * The returned value is y such that tanh(y) == x.\n * Special cases:\n * - atanh(NaN) is NaN\n * - atanh(x) is NaN when x > 1 or x < -1\n * - atanh(1.0) is +Inf\n * - atanh(-1.0) is -Inf\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atanh(x: Double): Double = nativeMath.atanh(x)\n\n/**\n * Computes \sqrt{x^2 + y^2} without intermediate overflow or underflow.\n * Special cases:\n * - returns +Inf if any of arguments is infinite\n * - returns NaN if any of arguments is NaN and the other is not infinite\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)\n\n/**\n * Computes the positive square root of the value [x].\n * Special cases:\n * - \sqrt{x} is NaN when x < 0 or x is NaN\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sqrt(x: Double): Double = nativeMath.sqrt(x)\n\n/**\n * Computes Euler's number e raised to the power of the value [x].\n * Special cases:\n * - exp(NaN) is NaN\n * - exp(+Inf) is +Inf\n * - exp(-Inf) is 0.0\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun exp(x: Double): Double = nativeMath.exp(x)\n\n/**\n * Computes \exp(x) - 1.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special cases:\n * - expm1(NaN) is NaN\n * - expm1(+Inf) is +Inf\n * - expm1(-Inf) is -1.0\n * @see [exp] function.\n *  
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)\n\n/**\n * Computes the logarithm of the value [x] to`

the given [base].  
Special cases:  
 $\log(x, b)$  is NaN if either  $x$  or  $b$  are NaN  
 $\log(x, b)$  is NaN when  $x < 0$  or  $b \leq 0$  or  $b == 1.0$   
 $\log(+Inf, +Inf)$  is NaN  
 $\log(+Inf, b)$  is +Inf for  $b > 1$  and -Inf for  $b < 1$   
 $\log(0.0, b)$  is -Inf for  $b > 1$  and +Inf for  $b < 1$   
See also logarithm functions for common fixed bases: [ln], [log10] and [log2].

```

@SinceKotlin("1.2")
public actual fun log(x: Double, base: Double): Double {
 if (base <= 0.0 || base == 1.0) return Double.NaN
 return nativeMath.log(x) / nativeMath.log(base)
}

```

Computes the natural logarithm (base 'E') of the value [x].  
Special cases:  
 $\ln(NaN)$  is NaN  
 $\ln(x)$  is NaN when  $x < 0.0$   
 $\ln(+Inf)$  is +Inf  
 $\ln(0.0)$  is -Inf

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun ln(x: Double): Double =
 nativeMath.log(x)

```

Computes the common logarithm (base 10) of the value [x].  
@see [ln] function for special cases.

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log10(x: Double): Double =
 nativeMath.log10(x)

```

Computes the binary logarithm (base 2) of the value [x].  
@see [ln] function for special cases.

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log2(x: Double): Double =
 nativeMath.log2(x)

```

Computes  $\ln(x + 1)$ .  
This function can be implemented to produce more precise result for [x] near zero.  
Special cases:  
 $\ln1p(NaN)$  is NaN  
 $\ln1p(x)$  is NaN where  $x < -1.0$   
 $\ln1p(-1.0)$  is -Inf  
 $\ln1p(+Inf)$  is +Inf  
@see [ln] function  
@see [expm1] function

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun ln1p(x: Double): Double =
 nativeMath.log1p(x)

```

Rounds the given value [x] to an integer towards positive infinity.  
@return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.  
Special cases:  
 $\text{ceil}(x)$  is  $x$  where  $x$  is NaN or +Inf or -Inf or already a mathematical integer.

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun ceil(x: Double): Double =
 nativeMath.ceil(x).unsafeCast<Double>() // TODO: Remove unsafe cast after removing public js.math

```

Rounds the given value [x] to an integer towards negative infinity.  
@return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.  
Special cases:  
 $\text{floor}(x)$  is  $x$  where  $x$  is NaN or +Inf or -Inf or already a mathematical integer.

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun floor(x: Double): Double =
 nativeMath.floor(x).unsafeCast<Double>()

```

Rounds the given value [x] to an integer towards zero.  
@return the value [x] having its fractional part truncated.  
Special cases:  
 $\text{truncate}(x)$  is  $x$  where  $x$  is NaN or +Inf or -Inf or already a mathematical integer.

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun truncate(x: Double): Double =
 nativeMath.trunc(x)

```

Rounds the given value [x] towards the closest integer with ties rounded towards even integer.  
Special cases:  
 $\text{round}(x)$  is  $x$  where  $x$  is NaN or +Inf or -Inf or already a mathematical integer.

```

@SinceKotlin("1.2")
public actual fun round(x: Double): Double {
 if (x % 0.5 != 0.0) {
 return nativeMath.round(x).unsafeCast<Double>()
 }
 val floor = floor(x)
 return if (floor % 2 == 0.0) floor else ceil(x)
}

```

Returns the absolute value of the given value [x].  
Special cases:  
 $\text{abs}(NaN)$  is NaN  
@see absoluteValue extension property for [Double]

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun abs(x: Double): Double =
 nativeMath.abs(x)

```

Returns the sign of the given value [x]:  
-1.0 if the value is negative,  
1.0 if the value is zero,  
1.0 if the value is positive  
Special case:  
 $\text{sign}(NaN)$  is NaN

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sign(x: Double): Double =
 nativeMath.sign(x)

```

Returns the smaller of two values.  
If either value is NaN, then the result is NaN.

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun min(a: Double, b: Double): Double =
 nativeMath.min(a, b)

```

Returns the greater of two values.  
If either value is NaN, then the result is NaN.

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun max(a: Double, b: Double): Double =
 nativeMath.max(a, b)

```

// extensions  
Raises this value to the power [x].  
Special cases:  
 $b.\text{pow}(0.0)$  is 1.0  
 $b.\text{pow}(1.0) == b$   
 $b.\text{pow}(NaN)$  is NaN  
 $NaN.\text{pow}(x)$  is NaN for  $x != 0.0$   
 $b.\text{pow}(Inf)$  is NaN for  $\text{abs}(b) == 1.0$   
 $b.\text{pow}(x)$  is NaN for  $b < 0$  and  $x$  is finite and not an integer

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun Double.pow(x: Double): Double =
 nativeMath.pow(this, x)

```

Raises this value to the integer power [n].  
See the other overload of [pow] for details.

```

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun Double.pow(n: Int): Double

```

```

= nativeMath.pow(this, n.toDouble())\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\n\n/**\n * Returns the sign of this value:\n *\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special case:\n * - `NaN.sign` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Double.sign: Double get() = nativeMath.sign(this)\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.withSign(sign: Int): Double = this.withSign(sign.toDouble())\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n *\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\n *\n * Special Cases:\n * - `NaN.ulp` is `NaN`\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n * - `0.0.ulp` is `Double.MIN_VALUE`\n */\n@SinceKotlin("1.2")\npublic actual val Double.ulp: Double get() = when {\n this < 0 -> (-this).ulp\n this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n this == Double.MAX_VALUE -> this - this.nextDown()\n else -> this.nextUp() - this\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction of positive infinity.\n */\n@SinceKotlin("1.2")\npublic actual fun Double.nextUp(): Double = when {\n this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n this == 0.0 -> Double.MIN_VALUE\n else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction of negative infinity.\n */\n@SinceKotlin("1.2")\npublic actual fun Double.nextDown(): Double = when {\n this.isNaN() || this == Double.NEGATIVE_INFINITY -> this\n this == 0.0 -> -Double.MIN_VALUE\n else -> Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].\n *\n * Special cases:\n * - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n * - `x.nextTowards(x) == x`\n */\n@SinceKotlin("1.2")\npublic actual fun Double.nextTowards(to: Double): Double = when {\n this.isNaN() || to.isNaN() -> Double.NaN\n to == this -> to\n to > this -> this.nextUp()\n else /* to < this */ -> this.nextDown()\n}\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\n *\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin("1.2")\npublic actual fun Double.roundToInt(): Int = when {\n isNaN() -> throw IllegalArgumentException("Cannot round NaN value.")\n this > Int.MAX_VALUE -> Int.MAX_VALUE\n this < Int.MIN_VALUE -> Int.MIN_VALUE\n else -> nativeMath.round(this).unsafeCast<Double>().toInt()\n}\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\n *\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin("1.2")\npublic actual fun Double.roundToLong(): Long = when {\n isNaN() -> throw IllegalArgumentException("Cannot round NaN value.")\n this > Long.MAX_VALUE -> Long.MAX_VALUE\n this < Long.MIN_VALUE -> Long.MIN_VALUE\n else -> nativeMath.round(this).unsafeCast<Double>().toLong()\n}\n\n// endregion\n\n// region =====\nFloat Math =====\n\n/**\n * Computes the sine of the angle [x] given in radians.\n *\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()\n\n/**\n * Computes the cosine of the angle [x] given in radians.\n *\n * Special cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()\n\n/**\n * Computes the tangent of the angle [x] given in radians.\n *\n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()\n\n/**\n * Computes the arc sine of the value [x];\n *\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) >

```



`1` or x is `NaN``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun asin(x: Float): Float =`  
`nativeMath.asin(x.toDouble()).toFloat()`  
`/* Computes the arc cosine of the value [x]; the returned value`  
`is an angle in the range from `0.0` to `PI` radians.`  
`Special cases: `acos(x)` is `NaN`, when `abs(x) >`  
`1` or x is `NaN``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun acos(x: Float): Float =`  
`nativeMath.acos(x.toDouble()).toFloat()`  
`/* Computes the arc tangent of the value [x]; the returned value`  
`is an angle in the range from `-PI/2` to `PI/2` radians.`  
`Special cases: `atan(NaN)` is `NaN``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun atan(x: Float): Float =`  
`nativeMath.atan(x.toDouble()).toFloat()`  
`/* Returns the angle `theta` of the polar coordinates `(r, theta)` that`  
`correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x]; the`  
`returned value is an angle in the range from `-PI` to `PI` radians.`  
`Special cases: `atan2(0.0, 0.0)` is`  
``0.0``  
``atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0``  
``atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI``  
`for `x < 0``  
``atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0``  
``atan2(y, -Inf)` is `PI``  
`for `0 < y < +Inf` and `-PI` for `-Inf < y < 0``  
``atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0``  
``atan2(+Inf, x)` is `PI/2` for finite `x``  
``atan2(-Inf, x)` is `-PI/2` for finite `x``  
``atan2(NaN, x)` and`  
``atan2(y, NaN)` is `NaN``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun atan2(y: Float, x:`  
`Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()`  
`/* Computes the hyperbolic sine of`  
`the value [x].`  
`Special cases: `sinh(NaN)` is `NaN``  
``sinh(+Inf)` is `+Inf``  
``sinh(-Inf)` is `-`  
`Inf``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun sinh(x: Float): Float =`  
`nativeMath.sinh(x.toDouble()).toFloat()`  
`/* Computes the hyperbolic cosine of the value [x].`  
`Special`  
`cases: `cosh(NaN)` is `NaN``  
``cosh(+Inf|-Inf)` is `+Inf``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun cosh(x: Float): Float =`  
`nativeMath.cosh(x.toDouble()).toFloat()`  
`/* Computes the hyperbolic tangent of the value [x].`  
`Special`  
`cases: `tanh(NaN)` is `NaN``  
``tanh(+Inf)` is `1.0``  
``tanh(-Inf)` is `-1.0``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun tanh(x: Float): Float =`  
`nativeMath.tanh(x.toDouble()).toFloat()`  
`/* Computes the inverse hyperbolic sine of the value [x].`  
`The returned value is `y` such that `sinh(y) == x`.`  
`Special cases: `asinh(NaN)` is `NaN``  
``asinh(+Inf)` is `+Inf``  
``asinh(-Inf)` is `-Inf``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline`  
`fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()`  
`/* Computes the inverse hyperbolic`  
`cosine of the value [x].`  
`The returned value is positive `y` such that `cosh(y) == x`.`  
`Special cases: `acosh(NaN)` is `NaN``  
``acosh(x)` is `NaN` when `x < 1``  
``acosh(+Inf)` is `+Inf``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun acosh(x: Float): Float =`  
`nativeMath.acosh(x.toDouble()).toFloat()`  
`/* Computes the inverse hyperbolic tangent of the value [x].`  
`The returned value is `y` such that `tanh(y) == x`.`  
`Special cases: `tanh(NaN)` is `NaN``  
``tanh(x)` is `NaN` when `x > 1` or `x < -1``  
``tanh(1.0)` is `+Inf``  
``tanh(-1.0)` is `-Inf``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun atanh(x: Float): Float =`  
`nativeMath.atanh(x.toDouble()).toFloat()`  
`/* Computes `sqrt(x^2 + y^2)` without intermediate overflow or`  
`underflow.`  
`Special cases: returns `+Inf` if any of arguments is infinite`  
`returns `NaN` if any of`  
`arguments is `NaN` and the other is not infinite`  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun`  
`hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()`  
`/* Computes the`  
`positive square root of the value [x].`  
`Special cases: `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun sqrt(x: Float): Float =`  
`nativeMath.sqrt(x.toDouble()).toFloat()`  
`/* Computes Euler's number `e` raised to the power of the value`  
`[x].`  
`Special cases: `exp(NaN)` is `NaN``  
``exp(+Inf)` is `+Inf``  
``exp(-Inf)` is `0.0``  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun exp(x: Float): Float =`  
`nativeMath.exp(x.toDouble()).toFloat()`  
`/* Computes `exp(x) - 1`.`  
`This function can be implemented`  
`to produce more precise result for [x] near zero.`  
`Special cases: `expm1(NaN)` is `NaN``  
``expm1(+Inf)` is `+Inf``  
``expm1(-Inf)` is `-1.0``  
`@see [exp] function.`  
`@SinceKotlin("1.2")`  
`@InlineOnly`  
`public actual inline fun expm1(x: Float): Float =`

`nativeMath.expm1(x.toDouble()).toFloat()` Computes the logarithm of the value [x] to the given [base].  
 \* Special cases: `-log(x, b)` is `NaN` if either `x` or `b` are `NaN`. `-log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`. `-log(+Inf, +Inf)` is `NaN`. `-log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`. `-log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`. See also logarithm functions for common fixed bases: [ln], [log10] and [log2].

`actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()` Computes the natural logarithm (base `E`) of the value [x].  
 \* Special cases: `-ln(NaN)` is `NaN`. `-ln(x)` is `NaN` when `x < 0.0`. `-ln(+Inf)` is `+Inf`. `-ln(0.0)` is `-Inf`.

`actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()` Computes the common logarithm (base 10) of the value [x].  
 \* @see [ln] function for special cases.

`actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()` Computes the binary logarithm (base 2) of the value [x].  
 \* @see [ln] function for special cases.

`actual inline fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()` Computes `ln(a + 1)`.  
 \* This function can be implemented to produce more precise result for [x] near zero.  
 \* Special cases: `-ln1p(NaN)` is `NaN`. `-ln1p(x)` is `NaN` where `x < -1.0`. `-ln1p(-1.0)` is `-Inf`. `-ln1p(+Inf)` is `+Inf`.  
 \* @see [ln] function  
 \* @see [expm1] function

`actual inline fun ln1p(x: Float): Float = nativeMath.log1p(x.toDouble()).toFloat()` Rounds the given value [x] to an integer towards positive infinity.  
 \* @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.  
 \* Special cases: `-ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`actual inline fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()` Rounds the given value [x] to an integer towards negative infinity.  
 \* @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.  
 \* Special cases: `-floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`actual inline fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()` Rounds the given value [x] to an integer towards zero.  
 \* @return the value [x] having its fractional part truncated.  
 \* Special cases: `-truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()` Rounds the given value [x] towards the closest integer with ties rounded towards even integer.  
 \* Special cases: `-round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()` Returns the absolute value of the given value [x].  
 \* Special cases: `-abs(NaN)` is `NaN`.  
 \* @see absoluteValue extension property for [Float]

`actual inline fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()` Returns the sign of the given value [x]:  
 \* `-1.0` if the value is negative,  
 \* zero if the value is zero,  
 \* `1.0` if the value is positive  
 \* Special case: `-sign(NaN)` is `NaN`.

`actual inline fun sign(x: Float): Float = nativeMath.sign(x.toDouble()).toFloat()` Returns the smaller of two values.  
 \* If either value is `NaN`, then the result is `NaN`.

`actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)` Returns the greater of two values.  
 \* If either value is `NaN`, then the result is `NaN`.

`actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)` // extensions

`actual inline fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()` Raises this value to the power [x].  
 \* Special cases: `-b.pow(0.0)` is `1.0`. `-b.pow(1.0)` is `b`. `-b.pow(NaN)` is `NaN`. `-NaN.pow(x)` is `NaN` for `x != 0.0`. `-b.pow(Inf)` is `NaN` for `abs(b) == 1.0`. `-b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer.

`actual inline fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()` Raises this value to the integer power [n].  
 \* See the other overload of [pow] for details.



can be found in the license/LICENSE.txt file.

```


 * Returns `true` if the specified number is a Not-a-Number (NaN) value, `false` otherwise.
 * Returns `true` if the specified number is a Not-a-Number (NaN) value, `false` otherwise.
 * Returns `true` if this value is infinitely large in magnitude.
 * Returns `true` if this value is infinitely large in magnitude.
 * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).
 * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).
 * Counts the number of set bits in the binary representation of this [Int] number.
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.
 * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number, or zero, if this number is zero.
 * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number, or zero, if this number is zero.
 * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.
 * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count.
 * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally
 * Rotating the number right by the specified [bitCount] number of bits.
 * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count.
 * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally
 * Counts the number of set bits in the binary representation of this [Long] number.


```

```

Long.countOneBits(): Int =\n high.countOneBits() + low.countOneBits()\n\n/**\n * Counts the number of\n consecutive most significant bits that are zero in the binary representation of this [Long] number.\n\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun\n Long.countLeadingZeroBits(): Int =\n when (val high = this.high) {\n 0 -> Int.SIZE_BITS +\n low.countLeadingZeroBits()\n else -> high.countLeadingZeroBits()\n }\n\n/**\n * Counts the number of\n consecutive least significant bits that are zero in the binary representation of this [Long] number.\n\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun\n Long.countTrailingZeroBits(): Int =\n when (val low = this.low) {\n 0 -> Int.SIZE_BITS +\n high.countTrailingZeroBits()\n else -> low.countTrailingZeroBits()\n }\n\n/**\n * Returns a number having a\n single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is\n zero.\n\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun\n Long.takeHighestOneBit(): Long =\n when (val high = this.high) {\n 0 -> Long(low.takeHighestOneBit(),\n 0)\n else -> Long(0, high.takeHighestOneBit())\n }\n\n/**\n * Returns a number having a single bit set in the\n position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun\n Long.takeLowestOneBit(): Long =\n when (val low = this.low) {\n 0 -> Long(0, high.takeLowestOneBit())\n else -> Long(low.takeLowestOneBit(), 0)\n }\n\n/**\n * Rotates the binary representation of this [Long]\n number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side\n reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit\n count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) ==\n number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more\n generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public actual fun Long.rotateLeft(bitCount: Int): Long {\n if ((bitCount and 31) != 0) {\n val low = this.low\n val high = this.high\n val newLow =\n low.shl(bitCount) or high.ushr(-bitCount)\n val newHigh = high.shl(bitCount) or low.ushr(-bitCount)\n return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh, newLow)\n } else {\n return\n if ((bitCount and 32) == 0) this else Long(high, low)\n }\n}\n\n/**\n * Rotates the binary representation of this\n [Long] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the\n right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a\n negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) ==\n number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more\n generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @kotlin.internal.InlineOnly\n public actual inline fun\n Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n\n"/>\n * Copyright 2010-2018 JetBrains s.r.o. and\n Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that\n can be found in the license/LICENSE.txt file.\n\n */\n\npackage kotlin.js\n\nimport\n kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Exposes the JavaScript [Promise\n object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.\n\n *\n @Suppress("NOT_DOCUMENTED")\n public open external class Promise<out T>(executor: (resolve: (T) ->\n Unit, reject: (Throwable) -> Unit) -> Unit) {\n @LowPriorityInOverloadResolution\n public open fun <S>\n then(onFulfilled: ((T) -> S)?): Promise<S>\n\n @LowPriorityInOverloadResolution\n public open fun <S>\n then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\n\n public open fun <S>\n catch(onRejected: (Throwable) -> S): Promise<S>\n\n companion object {\n public fun <S> all(promise:\n Array<out Promise<S>>): Promise<Array<out S>>\n\n public fun <S> race(promise: Array<out\n Promise<S>>): Promise<S>\n\n public fun reject(e: Throwable): Promise<Nothing>\n\n public fun <S>\n resolve(e: S): Promise<S>\n\n public fun <S> resolve(e: Promise<S>): Promise<S>\n }\n}\n\n// It's workaround\n for KT-19672 since we can fix it properly until KT-11265 isn't fixed.\n\ninline fun <T, S>\n Promise<Promise<T>>.then(\n noinline onFulfilled: ((T) -> S)?\n): Promise<S> {\n return

```

```

this.unsafeCast<Promise<T>>().then(onFulfilled)\n}\n\ninline fun <T, S> Promise<Promise<T>>.then(\n noninline
onFulfilled: ((T -> S)?),\n noninline onRejected: ((Throwable) -> S)?\n): Promise<S> {\n return
this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport
kotlin.math.pow\n\ninternal actual fun defaultPlatformRandom(): Random =\n Random(js(Math.random() *
Math.pow(2, 32)) | 0)).unsafeCast<Int>()\n\nprivate val INV_2_26: Double = 2.0.pow(-26)\nprivate val
INV_2_53: Double = 2.0.pow(-53)\n\ninternal actual fun doubleFromParts(hi26: Int, low27: Int): Double =\n hi26 *
INV_2_26 + low27 * INV_2_53", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\nimport findAssociatedObject\n\n/**\n * The
experimental marker for associated objects API.\n * Any usage of a declaration annotated with
`@ExperimentalAssociatedObjects` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`,\n * or by using the compiler argument
`-Xopt-in=kotlin.reflect.ExperimentalAssociatedObjects`.\n * ^\n * @RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n * @Retention(value = AnnotationRetention.BINARY)\n * public annotation class
ExperimentalAssociatedObjects\n * \n * \n * Makes the annotated annotation class an associated object key.\n * \n * \n *
An associated object key annotation should have single [KClass] parameter.\n * When applied to a class with
reference to an object declaration as an argument, it binds\n * the object to the class, making this binding
discoverable at runtime using [findAssociatedObject].\n * \n * \n * ^\n * @ExperimentalAssociatedObjects\n * @Retention(AnnotationRetention.BINARY)\n * @Target(AnnotationTarget.A
NNOTATION_CLASS)\n * public annotation class AssociatedObjectKey\n * \n * \n * If [T] is an
@[AssociatedObjectKey]-annotated annotation class and [this] class is annotated with @[T](`S::class`),\n * returns
object `S`. \n * \n * \n * Otherwise returns `null`. \n * \n * ^\n * @ExperimentalAssociatedObjects\n * public inline fun <reified T :
Annotation> KClass<*>.findAssociatedObject(): Any? =\n this.findAssociatedObject(T::class)", "/*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
getKClass\n\nimport kotlin.reflect.KClass\n\nimport kotlin.reflect.js.internal.KClassImpl\n * \n * \n * Represents the
constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.\n * \n * \n * ^\n * external interface JsClass<T : Any> {\n /*\n * \n * Returns the unqualified name of the class represented by
this instance.\n * \n * \n * val name: String\n * }\n * \n * \n * Obtains a constructor reference for the given `KClass`. \n * \n * \n * ^\n * nval <T : Any> KClass<T>.js: JsClass<T>\n get() = (this as KClassImpl<T>).jClass\n * \n * \n * Obtains a
`KClass` instance for the given constructor reference.\n * \n * \n * ^\n * nval <T : Any> JsClass<T>.kotlin: KClass<T>\n get()
= getKClass(this)\n * \n * \n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal abstract
class KClassImpl<T : Any>(\n internal open val jClass: JsClass<T>\n) : KClass<T> {\n override val
qualifiedName: String?\n get() = TODO()\n\n override fun equals(other: Any?): Boolean {\n return other
is KClassImpl<*> && jClass == other.jClass\n }\n\n // TODO: use FQN\n override fun hashCode(): Int =
simpleName?.hashCode() ?: 0\n\n override fun toString(): String {\n // TODO: use FQN\n return "class
$simpleName"\n }\n}\n\ninternal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) :
KClassImpl<T>(jClass) {\n override val simpleName: String? =
jClass.asDynamic().`$metadata$`.simpleName.unsafeCast<String?>()\n\n override fun isInstance(value: Any?):
Boolean {\n return jsIsType(value, jClass)\n }\n}\n\ninternal class PrimitiveKClassImpl<T : Any>(\n jClass: JsClass<T>,\n private val givenSimpleName: String,\n private val isInstanceFunction: (Any?) ->
Boolean\n) : KClassImpl<T>(jClass) {\n override fun equals(other: Any?): Boolean {\n if (other !is
PrimitiveKClassImpl<*>) return false\n return super.equals(other) && givenSimpleName ==
other.givenSimpleName\n }\n\n override val simpleName: String? get() = givenSimpleName\n\n override fun

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classifier: KClassifier? = null\n override val arguments: List<KTypeProjection> = emptyList()\n override val
isMarkedNullable: Boolean = false\n override fun toString(): String = \"dynamic\"\n}\n\ninternal fun
KVariance.prefixString() =\n when (this) {\n KVariance.INVARIANT -> \"\"\n KVariance.IN -> \"in \"\n KVariance.OUT -> \"out \"\n }\n,\"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal data class
KTypeParameterImpl(\n override val name: String,\n override val upperBounds: List<KType>,\n override val
variance: KVariance,\n override val isReified: Boolean)\n) : KTypeParameter {\n override fun toString(): String
= name\n},\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.js.JsClass\n\n@JsName(\"PrimitiveClasses\")\n\ninternal
object PrimitiveClasses {\n @JsName(\"anyClass\")\n val anyClass =
PrimitiveKClassImpl(js(\"Object\").unsafeCast<JsClass<Any>>(), \"Any\", { it is Any })\n}\n\n @JsName(\"numberClass\")\n val numberClass =
PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Number>>(), \"Number\", { it is Number })\n}\n\n @JsName(\"nothingClass\")\n val nothingClass = NothingKClassImpl\n}\n\n @JsName(\"booleanClass\")\n val
booleanClass = PrimitiveKClassImpl(js(\"Boolean\").unsafeCast<JsClass<Boolean>>(), \"Boolean\", { it is Boolean
})\n}\n\n @JsName(\"byteClass\")\n val byteClass =
PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Byte>>(), \"Byte\", { it is Byte })\n}\n\n @JsName(\"shortClass\")\n val shortClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Short>>(),
\"Short\", { it is Short })\n}\n\n @JsName(\"intClass\")\n val intClass =
PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Int>>(), \"Int\", { it is Int })\n}\n\n @JsName(\"floatClass\")\n val floatClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Float>>(),
\"Float\", { it is Float })\n}\n\n @JsName(\"doubleClass\")\n val doubleClass =
PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Double>>(), \"Double\", { it is Double })\n}\n\n @JsName(\"arrayClass\")\n val arrayClass =
PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<Array<*>>>(), \"Array\", { it is Array<*> })\n}\n\n @JsName(\"stringClass\")\n val stringClass = PrimitiveKClassImpl(js(\"String\").unsafeCast<JsClass<String>>(),
\"String\", { it is String })\n}\n\n @JsName(\"throwableClass\")\n val throwableClass =
PrimitiveKClassImpl(js(\"Error\").unsafeCast<JsClass<Throwable>>(), \"Throwable\", { it is Throwable })\n}\n\n @JsName(\"booleanArrayClass\")\n val booleanArrayClass =
PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<BooleanArray>>(), \"BooleanArray\", { it is BooleanArray
})\n}\n\n @JsName(\"charArrayClass\")\n val charArrayClass =
PrimitiveKClassImpl(js(\"Uint16Array\").unsafeCast<JsClass<CharArray>>(), \"CharArray\", { it is CharArray
})\n}\n\n @JsName(\"byteArrayClass\")\n val byteArrayClass =
PrimitiveKClassImpl(js(\"Int8Array\").unsafeCast<JsClass<ByteArray>>(), \"ByteArray\", { it is ByteArray })\n}\n\n @JsName(\"shortArrayClass\")\n val shortArrayClass =
PrimitiveKClassImpl(js(\"Int16Array\").unsafeCast<JsClass<ShortArray>>(), \"ShortArray\", { it is ShortArray
})\n}\n\n @JsName(\"intArrayClass\")\n val intArrayClass =
PrimitiveKClassImpl(js(\"Int32Array\").unsafeCast<JsClass<IntArray>>(), \"IntArray\", { it is IntArray })\n}\n\n @JsName(\"longArrayClass\")\n val longArrayClass =
PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<LongArray>>(), \"LongArray\", { it is LongArray })\n}\n\n @JsName(\"floatArrayClass\")\n val floatArrayClass =
PrimitiveKClassImpl(js(\"Float32Array\").unsafeCast<JsClass<FloatArray>>(), \"FloatArray\", { it is FloatArray
})\n}\n\n @JsName(\"doubleArrayClass\")\n val doubleArrayClass =
PrimitiveKClassImpl(js(\"Float64Array\").unsafeCast<JsClass<DoubleArray>>(), \"DoubleArray\", { it is
DoubleArray })\n}\n\n @JsName(\"functionClass\")\n fun functionClass(arity: Int): KClassImpl<Any> {\n
return functionClasses.get(arity) ?: run {\n val result =

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operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Converts the result of
[RegExp.exec] to an array where the first element contains the entire matched text and each subsequent\n * element
is the text matched by each capturing parenthesis.\n */\npublic inline fun RegExpMatch.asArray(): Array<out
String?> = unsafeCast<Array<out String?>>()\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.sequences\n\ninternal actual class
ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {\n private var
sequenceRef: Sequence<T>? = sequence\n\n actual override fun iterator(): Iterator<T> {\n val sequence =
sequenceRef ?: throw IllegalStateException("\nThis sequence can be consumed only once.\n")\n sequenceRef =
null\n return sequence.iterator()\n }\n}\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * The exception thrown when a
character encoding or decoding error occurs.\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual open class
CharacterCodingException(message: String?) : Exception(message) {\n actual constructor() : this(null)\n}\n", /*\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.text\n\n/**\n * A mutable sequence of characters.\n */\n * String builder can be used to efficiently perform
multiple string manipulation operations.\n */\npublic actual class StringBuilder actual constructor(content: String) :
Appendable, CharSequence {\n /**\n * Constructs an empty string builder with the specified initial [capacity].\n
*/\n * In Kotlin/JS implementation of StringBuilder the initial capacity has no effect on the further performance
of operations.\n */\n actual constructor(capacity: Int) : this() {\n }\n /**\n * Constructs a string builder that
contains the same characters as the specified [content] char sequence.\n */\n actual constructor(content:
CharSequence) : this(content.toString()) {\n }\n /**\n * Constructs an empty string builder.\n */\n actual constructor() :
this("")\n private var string: String = if (content != undefined) content else ""\n actual override val
length: Int\n get() = string.asDynamic().length\n actual override fun get(index: Int): Char =\n
string.getOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length") }\n actual
override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)\n
 actual override fun append(value: Char): StringBuilder {\n string += value\n return this\n }\n
 actual override fun append(value: CharSequence?): StringBuilder {\n string += value.toString()\n return this\n
 }\n actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value ?: "null", startIndex, endIndex)\n /**\n * Reverses the contents of this string builder
and returns this instance.\n */\n * Surrogate pairs included in this string builder are treated as single
characters.\n * Therefore, the order of the high-low surrogates is never reversed.\n */\n * Note that the reverse
operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the
operation.\n * For example, reversing "\uDC00\uD800" produces "\uD800\uDC00" which is a valid
surrogate pair.\n */\n actual fun reverse(): StringBuilder {\n var reversed = ""\n var index =
string.length - 1\n while (index >= 0) {\n val low = string[index--]\n if (low.isLowSurrogate() &&
index >= 0) {\n val high = string[index--]\n if (high.isHighSurrogate()) {\n reversed =
reversed + high + low\n } else {\n reversed = reversed + low + high\n }\n }
else {\n reversed += low\n }\n }\n string = reversed\n return this\n }\n /**\n *
Appends the string representation of the specified object [value] to this string builder and returns this instance.\n
*/\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n
* and then that string was appended to this string builder.\n */\n actual fun append(value: Any?): StringBuilder
{\n string += value.toString()\n return this\n }\n /**\n * Appends the string representation of the
specified boolean [value] to this string builder and returns this instance.\n */\n * The overall effect is exactly as
if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was appended to
this string builder.\n */\n @SinceKotlin("1.3")\n actual fun append(value: Boolean): StringBuilder {\n

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string += value\n return this\n } \n\n /**\n * Appends characters in the specified character array [value] to
this string builder and returns this instance.\n *\n * Characters are appended in order, starting at the index 0.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun append(value:
CharArray): StringBuilder {\n @OptIn(ExperimentalStdlibApi::class)\n string += value.concatToString()\n
 return this\n } \n\n @Deprecated("Provided for binary compatibility.", level =
DeprecationLevel.HIDDEN)\n fun append(value: String): StringBuilder = append(value)\n\n /**\n * Appends
the specified string [value] to this string builder and returns this instance.\n *\n * If [value] is `null`, then the
four characters `\\null\\` are appended.\n *\n @SinceKotlin("1.3")\n actual fun append(value: String?):
StringBuilder {\n this.string += value ?: "\\null"\n return this\n } \n\n /**\n * Returns the current
capacity of this string builder.\n *\n * The capacity is the maximum length this string builder can have before
an allocation occurs.\n *\n * In Kotlin/JS implementation of StringBuilder the value returned from this method
may not indicate the actual size of the backing storage.\n *\n @SinceKotlin("1.3")\n //
@ExperimentalStdlibApi\n @Deprecated("Obtaining StringBuilder capacity is not supported in JS and common
code.", level = DeprecationLevel.ERROR)\n actual fun capacity(): Int = length\n\n /**\n * Ensures that the
capacity of this string builder is at least equal to the specified [minimumCapacity].\n *\n * If the current
capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n *
Otherwise, this method takes no action and simply returns.\n *\n * In Kotlin/JS implementation of
StringBuilder the size of the backing storage is not extended to comply the given [minimumCapacity],\n * thus
calling this method has no effect on the further performance of operations.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun ensureCapacity(minimumCapacity: Int) {\n
}\n\n /**\n * Returns the index within this string builder of the first occurrence of the specified [string].\n *\n
* Returns `-1` if the specified [string] does not occur in this string builder.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun indexOf(string: String): Int =
this.string.asDynamic().indexOf(string)\n\n /**\n * Returns the index within this string builder of the first
occurrence of the specified [string],\n * starting at the specified [startIndex].\n *\n * Returns `-1` if the
specified [string] does not occur in this string builder starting at the specified [startIndex].\n *\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun indexOf(string: String,
startIndex: Int): Int = this.string.asDynamic().indexOf(string, startIndex)\n\n /**\n * Returns the index within
this string builder of the last occurrence of the specified [string].\n * The last occurrence of empty string `""` is
considered to be at the index equal to `this.length`.\n *\n * Returns `-1` if the specified [string] does not occur
in this string builder.\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
actual fun lastIndexOf(string: String): Int = this.string.asDynamic().lastIndexOf(string)\n\n /**\n * Returns the
index within this string builder of the last occurrence of the specified [string],\n * starting from the specified
[startIndex] toward the beginning.\n *\n * Returns `-1` if the specified [string] does not occur in this string
builder starting at the specified [startIndex].\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun lastIndexOf(string: String, startIndex: Int): Int {\n
 if (string.isEmpty() && startIndex < 0) return -1\n return this.string.asDynamic().lastIndexOf(string,
startIndex)\n } \n\n /**\n * Inserts the string representation of the specified boolean [value] into this string
builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the [value]
were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string
builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or
greater than the length of this string builder.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: Boolean): StringBuilder
{\n AbstractList.checkPositionIndex(index, length)\n string = string.substring(0, index) + value +
string.substring(index)\n return this\n } \n\n /**\n * Inserts the specified character [value] into this string
builder at the specified [index] and returns this instance.\n *\n * @throws IndexOutOfBoundsException if
[index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: Char): StringBuilder {\n

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AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0, index) + value +
string.substring(index)\n return this\n }\n\n /**\n * Inserts characters in the specified character array
[value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters
go in same order as in the [value] character array, starting at [index].\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value:
CharArray): StringBuilder {\n AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0, index) + value.concatToString() +
string.substring(index)\n return this\n }\n\n /**\n * Inserts characters in the specified character sequence
[value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters
go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param index the position
in this string builder to insert at.\n * @param value the character sequence from which characters are inserted. If
[value] is `null`, then the four characters `"\n\n\n\n"` are inserted.\n *\n * @throws IndexOutOfBoundsException
if [index] is less than zero or greater than the length of this string builder.\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value: CharSequence?):
StringBuilder {\n AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0, index) +
value.toString() + string.substring(index)\n return this\n }\n\n /**\n * Inserts the string representation of
the specified object [value] into this string builder at the specified [index] and returns this instance.\n *\n * The
overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then
that string was inserted into this string builder at the specified [index].\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value:
Any?): StringBuilder {\n AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0,
index) + value.toString() + string.substring(index)\n return this\n }\n\n @Deprecated("Provided for binary
compatibility.", level = DeprecationLevel.HIDDEN)\n fun insert(index: Int, value: String): StringBuilder =
insert(index, value)\n\n /**\n * Inserts the string [value] into this string builder at the specified [index] and
returns this instance.\n *\n * If [value] is `null`, then the four characters `"\n\n\n\n"` are inserted.\n *\n *
@throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
*/\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int,
value: String?): StringBuilder {\n AbstractList.checkPositionIndex(index, length)\n\n val toInsert = value ?:
"\n\n\n\n"\n this.string = this.string.substring(0, index) + toInsert + this.string.substring(index)\n return this\n
}\n\n /**\n * Sets the length of this string builder to the specified [newLength].\n *\n * If the [newLength]
is less than the current length, it is changed to the specified [newLength].\n * Otherwise, null characters '\u0000'
are appended to this string builder until its length is less than the [newLength].\n *\n * Note that in Kotlin/JS
[set] operator function has non-constant execution time complexity.\n * Therefore, increasing length of this string
builder and then updating each character by index may slow down your program.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun setLength(newLength:
Int) {\n if (newLength < 0) {\n throw IllegalArgumentException("Negative new length:
$newLength.")\n }\n\n if (newLength <= length) {\n string = string.substring(0, newLength)\n }
else {\n for (i in length until newLength) {\n string += "\u0000"\n }\n }\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[length] (exclusive).\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater
than the length of this string builder.\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun substring(startIndex: Int): String {\n
AbstractList.checkPositionIndex(startIndex, length)\n\n return string.substring(startIndex)\n }\n\n /**\n *
Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[endIndex] (exclusive).\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when

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[startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.n */n
@SinceKotlin("1.4")n @WasExperimental(ExperimentalStdlibApi::class)n actual fun substring(startIndex:
Int, endIndex: Int): String {n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)n return
string.substring(startIndex, endIndex)n }n /**n * Attempts to reduce storage used for this string builder.n
 *n * If the backing storage of this string builder is larger than necessary to hold its current contents,n * then
it may be resized to become more space efficient.n * Calling this method may, but is not required to, affect the
value of the [capacity] property.n *n * In Kotlin/JS implementation of StringBuilder the size of the backing
storage is always equal to the length of the string builder.n */n @SinceKotlin("1.4")n
@WasExperimental(ExperimentalStdlibApi::class)n actual fun trimToSize() {n }n override fun toString():
String = stringn /**n * Clears the content of this string builder making it empty and returns this instance.n
 *n * @sample samples.text.Strings.clearStringBuildern */n @SinceKotlin("1.3")n public fun clear():
StringBuilder {n string = ""n return thisn }n /**n * Sets the character at the specified [index]
to the specified [value].n *n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string
builder.n */n @SinceKotlin("1.4")n @WasExperimental(ExperimentalStdlibApi::class)n public
operator fun set(index: Int, value: Char) {n AbstractList.checkElementIndex(index, length)n string =
string.substring(0, index) + value + string.substring(index + 1)n }n /**n * Replaces characters in the
specified range of this string builder with characters in the specified string [value] and returns this instance.n *n
 * @param startIndex the beginning (inclusive) of the range to replace.n * @param endIndex the end (exclusive)
of the range to replace.n * @param value the string to replace with.n *n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length
of this string builder, or `startIndex > endIndex`.n */n @SinceKotlin("1.4")n
@WasExperimental(ExperimentalStdlibApi::class)n public fun setRange(startIndex: Int, endIndex: Int, value:
String): StringBuilder {n checkReplaceRange(startIndex, endIndex, length)n this.string =
this.string.substring(0, startIndex) + value + this.string.substring(endIndex)n return thisn }n private fun
checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {n if (startIndex < 0 || startIndex > length) {n
 throw IndexOutOfBoundsException("startIndex: $startIndex, length: $length")n }n if (startIndex >
endIndex) {n throw IllegalArgumentException("startIndex($startIndex) > endIndex($endIndex)")n }n }n /**n
 * Removes the character at the specified [index] from this string builder and returns this instance.n
 *n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove
the entire supplementary character.n *n * @param index the index of `Char` to remove.n *n * @throws
IndexOutOfBoundsException if [index] is out of bounds of this string builder.n */n @SinceKotlin("1.4")n
@WasExperimental(ExperimentalStdlibApi::class)n public fun deleteAt(index: Int): StringBuilder {n
AbstractList.checkElementIndex(index, length)n string = string.substring(0, index) + string.substring(index +
1)n return thisn }n /**n * Removes characters in the specified range from this string builder and
returns this instance.n *n * @param startIndex the beginning (inclusive) of the range to remove.n *
 * @param endIndex the end (exclusive) of the range to remove.n *n * @throws IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex >
endIndex`.n */n @SinceKotlin("1.4")n @WasExperimental(ExperimentalStdlibApi::class)n public fun
deleteRange(startIndex: Int, endIndex: Int): StringBuilder {n checkReplaceRange(startIndex, endIndex,
length)n string = string.substring(0, startIndex) + string.substring(endIndex)n return thisn }n /**n
 * Copies characters from this string builder into the [destination] character array.n *n * @param
destination the array to copy to.n * @param destinationOffset the position in the array to copy to, 0 by default.n
 * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.n * @param endIndex the end
(exclusive) of the range to copy, length of this string builder by default.n *n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
string builder indices or when `startIndex > endIndex`.n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],n * or when that index
is out of the [destination] array indices range.n */n @SinceKotlin("1.4")n

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@WasExperimental(ExperimentalStdlibApi::class)\n public fun toCharArray(destination: CharArray,
destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n
AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex, destination.size)\n\n
 var dstIndex = destinationOffset\n for (index in startIndex until endIndex) {\n destination[dstIndex++]
= string[index]\n }\n }\n\n /**\n * Appends characters in a subarray of the specified character array
[value] to this string builder and returns this instance.\n * Characters are appended in order, starting at
specified [startIndex].\n * @param value the array from which characters are appended.\n * @param
startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the
subarray to append.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n
*/\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun appendRange(value:
CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n @OptIn(ExperimentalStdlibApi::class)\n
string += value.concatToString(startIndex, endIndex)\n return this\n }\n\n /**\n * Appends a subsequence
of the specified character sequence [value] to this string builder and returns this instance.\n * @param value
the character sequence from which a subsequence is appended.\n * @param startIndex the beginning (inclusive)
of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of the [value] character sequence indices or when `startIndex > endIndex`.\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n public fun appendRange(value: CharSequence, startIndex:
Int, endIndex: Int): StringBuilder {\n val stringCsq = value.toString()\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n\n string +=
stringCsq.substring(startIndex, endIndex)\n return this\n }\n\n /**\n * Inserts characters in a subarray of
the specified character array [value] into this string builder at the specified [index] and returns this instance.\n
* The inserted characters go in same order as in the [value] array, starting at [index].\n * @param index
the position in this string builder to insert at.\n * @param value the array from which characters are inserted.\n
* @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive)
of the subarray to insert.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n
* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
*/\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun
insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n
AbstractList.checkPositionIndex(index, this.length)\n\n @OptIn(ExperimentalStdlibApi::class)\n string =
string.substring(0, index) + value.concatToString(startIndex, endIndex) + string.substring(index)\n return this\n
}\n\n /**\n * Inserts characters in a subsequence of the specified character sequence [value] into this string
builder at the specified [index] and returns this instance.\n * The inserted characters go in the same order as
in the [value] character sequence, starting at [index].\n * @param index the position in this string builder to
insert at.\n * @param value the character sequence from which a subsequence is inserted.\n * @param
startIndex the beginning (inclusive) of the subsequence to insert.\n * @param endIndex the end (exclusive) of the
subsequence to insert.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex >
endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this
string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public
fun insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder {\n
AbstractList.checkPositionIndex(index, length)\n\n val stringCsq = value.toString()\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n\n string = string.substring(0, index)
+ stringCsq.substring(startIndex, endIndex) + string.substring(index)\n return this\n }\n}\n\n/**\n * Clears
the content of this string builder making it empty and returns this instance.\n */\n @sample

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samples.text.Strings.clearStringBuilder\n
*\n@SinceKotlin("1.3")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
"NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.clear(): StringBuilder = this.clear()\n\n*\n * Sets the character at the specified [index] to the specified [value].\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline operator fun
StringBuilder.set(index: Int, value: Char) = this.set(index, value)\n\n\n*\n * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n * @param value the string to replace with.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder =\n this.setRange(startIndex, endIndex, value)\n\n\n*\n * Removes the character at the specified [index] from this string builder and returns this instance.\n *\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n *\n * @param index the index of `Char` to remove.\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.deleteAt(index: Int): StringBuilder = this.deleteAt(index)\n\n\n*\n * Removes characters in the specified range from this string builder and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end (exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder = this.deleteRange(startIndex, endIndex)\n\n\n*\n * Copies characters from this string builder into the [destination] character array.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE",
"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) =\n this.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n\n*\n * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n *\n * Characters are appended in order, starting at specified [startIndex].\n *\n * @param value the array from which characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when

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`startIndex > endIndex`.n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value, startIndex, endIndex)\n\n**\n * Appends a subsequence of the specified character
sequence [value] to this string builder and returns this instance.\n\n * @param value the character sequence from
which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n
* @param endIndex the end (exclusive) of the subsequence to append.\n\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value, startIndex, endIndex)\n\n**\n * Inserts characters in a subarray of the specified character
array [value] into this string builder at the specified [index] and returns this instance.\n\n * The inserted characters
go in same order as in the [value] array, starting at [index].\n\n * @param index the position in this string builder
to insert at.\n * @param value the array from which characters are inserted.\n * @param startIndex the beginning
(inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n\n *
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of the [value] array indices or when `startIndex > endIndex`.n\n * @throws IndexOutOfBoundsException if
[index] is less than zero or greater than the length of this string builder.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n\n**\n * Inserts characters in a subsequence of the specified
character sequence [value] into this string builder at the specified [index] and returns this instance.\n\n * The
inserted characters go in the same order as in the [value] character sequence, starting at [index].\n\n * @param
index the position in this string builder to insert at.\n * @param value the character sequence from which a
subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n * @param
endIndex the end (exclusive) of the subsequence to insert.\n\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence
indices or when `startIndex > endIndex`.n\n * @throws IndexOutOfBoundsException if [index] is less than zero or
greater than the length of this string builder.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n\n**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n\n * \n\npackage kotlin.text\n\n// actually \s is enough to match all
whitespace, but \xA0 added because of different regexp behavior of Rhino used in Selenium tests\n\npublic actual fun
Char.isWhitespace(): Boolean = toString().matches("[\\s\\xA0]")\n\n**\n * Converts this character to lower
case using Unicode mapping rules of the invariant locale.\n
*\n@OptIn(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n\npublic actual inline fun
Char.toLowerCase(): Char = lowercaseChar()\n\n**\n * Converts this character to lower case using Unicode
mapping rules of the invariant locale.\n\n * This function performs one-to-one character mapping.\n\n * To support
one-to-many character mapping use the [lowercase] function.\n\n * If this character has no mapping equivalent, the
character itself is returned.\n\n * @sample samples.text.Chars.lowercase\n
*\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\n\npublic actual inline fun

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Char.lowercaseChar(): Char =
toString().asDynamic().toLowerCase().charCodeAt(0).unsafeCast<Int>().toChar()\n\n/**\n * Converts this
character to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-
many character mapping, thus the length of the returned string can be greater than one.\n * For example,
`'\u0130'.lowercase()` returns `'\u0069\u0307'`,\n * where `'\u0130` is the LATIN CAPITAL LETTER I WITH
DOT ABOVE character (`\u0130`).\n * If this character has no lower case mapping, the result of `toString()` of this
char is returned.\n *\n * @sample samples.text.Chars.lowercase\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic actual inline fun
Char.lowercase(): String = toString().asDynamic().toLowerCase() as String\n\n/**\n * Converts this character to
upper case using Unicode mapping rules of the invariant locale.\n
*\n * @sample samples.text.Chars.uppercase\n
*/\n\n@OptIn(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun
Char.toUpperCase(): Char = uppercaseChar()\n\n/**\n * Converts this character to upper case using Unicode
mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support
one-to-many character mapping use the [uppercase] function.\n * If this character has no mapping equivalent, the
character itself is returned.\n *\n * @sample samples.text.Chars.uppercase\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic actual fun Char.uppercaseChar(): Char {\n val
uppercase = uppercase()\n return if (uppercase.length > 1) this else uppercase[0]\n}\n\n/**\n * Converts this
character to upper case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-
many character mapping, thus the length of the returned string can be greater than one.\n * For example,
`'\uFB00'.uppercase()` returns `'\u0046\u0046'`,\n * where `'\uFB00` is the LATIN SMALL LIGATURE FF
character (`\uFB00`).\n * If this character has no upper case mapping, the result of `toString()` of this char is
returned.\n *\n * @sample samples.text.Chars.uppercase\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic actual inline fun
Char.uppercase(): String = toString().asDynamic().toUpperCase() as String\n\n/**\n * Returns `true` if this character
is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).\n */\n\npublic actual fun
Char.isHighSurrogate(): Boolean = this in
Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n/**\n * Returns `true` if this character is a
Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\n */\n\npublic actual fun
Char.isLowSurrogate(): Boolean = this in
Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n", "/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Returns `true` if
the content of this string is equal to the word `true`, ignoring case, and `false` otherwise.\n */\n\n@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation warning.")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toBoolean(): Boolean =
this.toBoolean()\n\n/**\n * Returns `true` if this string is not `null` and its content is equal to the word `true`,
ignoring case, and `false` otherwise.\n */\n\n@OptIn(ExperimentalStdlibApi::class)\n@SinceKotlin("1.4")\npublic
actual fun String?.toBoolean(): Boolean = this != null && this.lowercase() == `true`\n\n/**\n * Parses the string as
a signed [Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\n\npublic actual fun String.toByte(): Byte = toByteOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentExcepion when [radix] is not a valid radix for string to number conversion.\n */\n\npublic actual fun
String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a
[Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\n\npublic actual fun String.toShort(): Short = toShortOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws

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IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun
String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the string as
an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toInt(): Int = toIntOrNull() ?:
numberFormatException(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun
String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n */\npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatException(this)\n\n/**\n *
Parses the string as a [Long] number and returns the result.\n * @throws NumberFormatException if the string is not
a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for
string to number conversion.\n */\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?:
numberFormatException(this)\n\n/**\n * Parses the string as a [Double] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun
String.toDouble(): Double = +(this.asDynamic()).unsafeCast<Double>().also {\n if (it.isNaN() && !this.isNaN()
|| it == 0.0 && this.isBlank())\n numberFormatException(this)\n}\n\n/**\n * Parses the string as a [Float] number
and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloat(): Float =
toDouble().unsafeCast<Float>()\n\n/**\n * Parses the string as a [Double] number and returns the result\n * or `null`
if the string is not a valid representation of a number.\n */\npublic actual fun String.toDoubleOrNull(): Double? =
+(this.asDynamic()).unsafeCast<Double>().takeIf {\n !(it.isNaN() && !this.isNaN() || it == 0.0 &&
this.isBlank())\n}\n\n/**\n * Parses the string as a [Float] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun
String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\n\n/**\n * Returns a string representation
of this [Byte] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n */\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual
inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of
this [Short] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n */\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual
inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of
this [Int] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix
for number to string conversion.\n */\n@SinceKotlin("1.2")\npublic actual fun Int.toString(radix: Int): String =
asDynamic().toString(checkRadix(radix))\n\n@OptIn(ExperimentalStdlibApi::class)\nprivate fun String.isNaN():
Boolean = when (this.lowercase()) {\n "nan", "+nan", "-nan" -> true\n else -> false\n}\n\n/**\n * Checks
whether the given [radix] is valid radix for string to number and number to string conversion.\n */\n\n@PublishedApi\ninternal actual fun checkRadix(radix: Int): Int {\n if (radix !in 2..36) {\n throw
IllegalArgumentOutOfRangeException("radix $radix was not in valid range 2..36")\n }\n return radix\n}\n\ninternal actual
fun digitOf(char: Char, radix: Int): Int = when {\n char >= '0' && char <= '9' -> char - '0'\n char >= 'A' && char
<= 'Z' -> char - 'A' + 10\n char >= 'a' && char <= 'z' -> char - 'a' + 10\n else -> -1\n}.let { if (it >= radix) -1 else
it }\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n * Provides enumeration values to use to set regular
expression options.\n */\npublic actual enum class RegexOptions(val value: String) {\n /** Enables case-insensitive
matching. */\n IGNORE_CASE("i"),\n /** Enables multiline mode. */\n MULTILINE("m")\n}\n\n/**\n * In multiline mode the
expressions `^` and `$` match just after or just before, respectively, a line terminator or the end of the input
sequence.\n * Represents the results from a single capturing group within a [MatchResult] of [Regex].\n * @param value The value of captured group.\n */\npublic actual data class

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MatchGroup(actual val value: String)\n\n/\*\*\n \* Represents a compiled regular expression.\n \* Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.\n \* For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/RegExp#Special\_characters\_meaning\_in\_regular\_expressions)\n\n \* and

[http://www.w3schools.com/jsref/jsref\_obj\_regexp.asp](https://www.w3schools.com/jsref/jsref\_obj\_regexp.asp).\n\n \* @constructor Creates a regular expression from the specified [pattern] string and the specified set of [options].\n\n ^\npublic actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {\n\n /\*\* Creates a regular expression from the specified [pattern] string and the specified single [option].\n\n ^\n public actual constructor(pattern: String, option: RegexOption) : this(pattern, setOf(option))\n\n /\*\* Creates a regular expression from the specified [pattern] string and the default options.\n\n ^\n public actual constructor(pattern: String) : this(pattern, emptySet())\n\n\n /\*\* The pattern string of this regular expression.\n\n ^\n public actual val pattern: String = pattern\n\n /\*\* The set of options that were used to create this regular expression.\n\n ^\n public actual val options: Set<RegexOption> = options.toSet()\n\n private val nativePattern: RegExp = RegExp(pattern, options.map { it.value }.joinToString(separator = "\\") + "g")\n\n /\*\* Indicates whether the regular expression matches the entire [input].\n\n ^\n public actual infix fun matches(input: CharSequence): Boolean {\n\n nativePattern.reset()\n\n val match = nativePattern.exec(input.toString())\n\n return match != null && match.index == 0 && nativePattern.lastIndex == input.length\n\n }\n\n /\*\* Indicates whether the regular expression can find at least one match in the specified [input].\n\n ^\n public actual fun containsMatchIn(input: CharSequence): Boolean {\n\n nativePattern.reset()\n\n return nativePattern.test(input.toString())\n\n }\n\n /\*\* Returns the first match of a regular expression in the [input], beginning at the specified [startIndex].\n\n \* @param startIndex An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()`\n\n \* @return An instance of [MatchResult] if match was found or `null` otherwise.\n\n \* @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.\n\n \*/\n\n @Suppress("ACTUAL\_FUNCTION\_WITH\_DEFAULT\_ARGUMENTS")\n public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? {\n\n if (startIndex < 0 || startIndex > input.length) {\n\n throw IndexOutOfBoundsException("Start index out of bounds: \$startIndex, input length: \${input.length}")\n\n }\n\n return nativePattern.findNext(input.toString(), startIndex)\n\n }\n\n /\*\*\n\n \* Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified [startIndex].\n\n \* @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.\n\n \* @sample samples.text.Regexps.findAll\n\n \*/\n\n @Suppress("ACTUAL\_FUNCTION\_WITH\_DEFAULT\_ARGUMENTS")\n public actual fun findAll(input: CharSequence, startIndex: Int = 0): Sequence<MatchResult> {\n\n if (startIndex < 0 || startIndex > input.length) {\n\n throw IndexOutOfBoundsException("Start index out of bounds: \$startIndex, input length: \${input.length}")\n\n }\n\n return generateSequence({ find(input, startIndex) }, { match -> match.next() })\n\n }\n\n /\*\*\n\n \* Attempts to match the entire [input] CharSequence against the pattern.\n\n \* @return An instance of [MatchResult] if the entire input matches or `null` otherwise.\n\n \*/\n\n public actual fun matchEntire(input: CharSequence): MatchResult? {\n\n if (pattern.startsWith('^') && pattern.endsWith('\$'))\n\n return find(input)\n\n else\n\n return Regex("^\${pattern.trimStart('^').trimEnd('\$')}\$", options).find(input)\n\n }\n\n /\*\*\n\n \* Replaces all occurrences of this regular expression in the specified [input] string with specified [replacement] expression.\n\n \* @param replacement A replacement expression that can include substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/String/replace) function docs for details.\n\n \*/\n\n public actual fun replace(input: CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern, replacement)\n\n /\*\*\n\n \* Replaces all occurrences of this regular expression in the specified [input] string with the result of\n\n \* the given function [transform] that takes [MatchResult] and returns a string to be used as a\n\n \* replacement for that match.\n\n \*/\n\n public actual inline fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {\n\n var match = find(input)\n\n if (match == null) return

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input.toString()\n\n var lastStart = 0\n val length = input.length\n val sb = StringBuilder(length)\n do {\n val foundMatch = match!!\n sb.append(input, lastStart, foundMatch.range.start)\n sb.append(transform(foundMatch))\n lastStart = foundMatch.range.endInclusive + 1\n match =\n foundMatch.next()\n } while (lastStart < length && match != null)\n\n if (lastStart < length) {\n sb.append(input, lastStart, length)\n }\n\n return sb.toString()\n }\n\n /**\n * Replaces the first\n occurrence of this regular expression in the specified [input] string with specified [replacement] expression.\n *\n * @param replacement A replacement expression that can include substitutions. See\n [String.prototype.replace](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\n */\n public\n actual fun replaceFirst(input: CharSequence, replacement: String): String {\n val nonGlobalOptions =\n options.map { it.value }.joinToString(separator = "\\")\n return input.toString().nativeReplace(RegExp(pattern,\n nonGlobalOptions), replacement)\n }\n\n /**\n * Splits the [input] CharSequence around matches of this\n regular expression.\n *\n * @param limit Non-negative value specifying the maximum number of substrings\n the string can be split to.\n * Zero by default means no limit is set.\n */\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun split(input:\n CharSequence, limit: Int = 0): List<String> {\n require(limit >= 0) { "Limit must be non-negative, but was\n $limit" }\n val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\n val result =\n mutableListOf<String>()\n var lastStart = 0\n for (match in matches) {\n result.add(input.subSequence(lastStart, match.range.start).toString())\n lastStart = match.range.endInclusive +\n 1\n }\n result.add(input.subSequence(lastStart, input.length).toString())\n return result\n }\n\n /**\n * Returns the string representation of this regular expression, namely the [pattern] of this regular\n expression.\n *\n * Note that another regular expression constructed from the same pattern string may have\n different [options]\n * and may match strings differently.\n */\n public override fun toString(): String =\n nativePattern.toString()\n\n actual companion object {\n /**\n * Returns a regular expression that\n matches the specified [literal] string literally.\n * No characters of that string will have special meaning when\n searching for an occurrence of the regular expression.\n */\n public actual fun fromLiteral(literal: String):\n Regex = Regex(escape(literal))\n\n /**\n * Returns a regular expression pattern string that matches the\n specified [literal] string literally.\n * No characters of that string will have special meaning when searching for\n an occurrence of the regular expression.\n */\n public actual fun escape(literal: String): String =\n literal.nativeReplace(patternEscape, "\\|\\$&\\")\n\n /**\n * Returns a literal replacement expression for the\n specified [literal] string.\n * No characters of that string will have special meaning when it is used as a\n replacement string in [Regex.replace] function.\n */\n public actual fun escapeReplacement(literal: String):\n String = literal.nativeReplace(replacementEscape, "\\$\\$\\$")\n\n private val patternEscape = RegExp("\\|\\\"[-\n \\|\\^$*+?.()|[\\]{}\\|\\\"'\"", "g")\n private val replacementEscape = RegExp("\\\"\\\"\\$\\\"\\\"'\"", "g")\n }\n\n /**\n * Creates a regular expression from the specified [pattern] string and the specified single [option].\n */\n @Deprecated("Provided for binary compatibility", level =\n DeprecationLevel.HIDDEN)\n @JsName("Regex_sb3q2\\$")\n public fun Regex_0(pattern: String, option:\n RegexOptions): Regex = Regex(pattern, setOf(option))\n\n /**\n * Creates a regular expression from the specified\n [pattern] string and the default options.\n */\n @Deprecated("Provided for binary compatibility", level =\n DeprecationLevel.HIDDEN)\n @JsName("Regex_61zpoe\\$")\n public fun Regex_1(pattern: String): Regex =\n Regex(pattern, emptySet())\n\n private fun RegExp.findNext(input: String, from: Int): MatchResult? {\n this.lastIndex = from\n val match = exec(input)\n if (match == null) return null\n val range =\n match.index..lastIndex - 1\n return object : MatchResult {\n override val range: IntRange = range\n override val value: String\n get() = match[0]!!\n override val groups: MatchGroupCollection = object :\n MatchGroupCollection, AbstractCollection<MatchGroup?>() {\n override val size: Int get() = match.length\n override fun iterator(): Iterator<MatchGroup?> = indices.asSequence().map { this[it] }.iterator()\n }\n override fun get(index: Int): MatchGroup? = match[index]?.let { MatchGroup(it) }\n }\n\n private var\n groupValues_: List<String>? = null\n override val groupValues: List<String>\n get() {\n if

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(groupValues_ == null) {\n groupValues_ = object : AbstractList<String>() {\n override
val size: Int get() = match.length\n override fun get(index: Int): String = match[index] ?: ""\n
 }\n }\n return groupValues_!!\n }\n override fun next(): MatchResult? =
this@findNext.findNext(input, if (range.isEmpty()) range.start + 1 else range.endInclusive + 1)\n }\n}\n"/*\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.text\nimport kotlin.js.RegExp\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun
String.nativeIndexOf(ch: Char, fromIndex: Int): Int = nativeIndexOf(ch.toString(),
fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(ch: Char,
fromIndex: Int): Int = nativeLastIndexOf(ch.toString(), fromIndex)\n\n/**\n * Returns `true` if this string starts with
the specified prefix.\n */\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase)\n return
nativeStartsWith(prefix, 0)\n else\n return regionMatches(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n *
Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.\n
*/\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase)\n return
nativeStartsWith(prefix, startIndex)\n else\n return regionMatches(startIndex, prefix, 0, prefix.length,
ignoreCase)\n}\n\n/**\n * Returns `true` if this string ends with the specified suffix.\n
*/\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase)\n return
nativeEndsWith(suffix)\n else\n return regionMatches(length - suffix.length, suffix, 0, suffix.length,
ignoreCase)\n}\n\npublic fun String.matches(regex: String): Boolean {\n val result = this.match(regex)\n return result != null && result.size != 0\n}\n\npublic actual fun CharSequence.isBlank(): Boolean = length == 0 || (if
(this is String) this else
this.toString()).matches("^[\\s\\t\\x{0-9}]+\$")\n\n@OptIn(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_F
UNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String?.equals(other: String?, ignoreCase:
Boolean = false): Boolean =\n if (this == null)\n other == null\n else if (!ignoreCase)\n this == other\n
else\n other != null && this.lowercase() ==
other.lowercase()\n\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual
fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase:
Boolean = false): Boolean =\n regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)\n\n\n/**\n * Returns a copy of this string having its first letter titlecased using the rules of the default locale,\n * or the original
string if it's empty or already starts with a title case letter.\n */\n * The title case of a character is usually the same as
its upper case with several exceptions.\n * The particular list of characters with the special title case form depends
on the underlying platform.\n */\n * @sample samples.text.Strings.capitalize\n */\npublic actual fun
String.capitalize(): String {\n return if (isEmpty()) substring(0, 1).toUpperCase() + substring(1) else
this\n}\n\n/**\n * Returns a copy of this string having its first letter lowercased using the rules of the default
locale,\n * or the original string if it's empty or already starts with a lower case letter.\n */\n * @sample
samples.text.Strings.decapsialize\n */\npublic actual fun String.decapsialize(): String {\n return if (isEmpty())
substring(0, 1).toLowerCase() + substring(1) else this\n}\n\n\n/**\n * Returns a string containing this char sequence
repeated [n] times.\n * @throws [IllegalArgumentException] when n < 0.\n */\npublic actual fun
CharSequence.repeat(n: Int): String {\n require(n >= 0) {"Count 'n' must be non-negative, but was $n." }\n return when (n) {\n 0 -> ""\n 1 -> this.toString()\n else -> {\n var result = ""\n if
(!isEmpty()) {\n var s = this.toString()\n var count = n\n while (true) {\n if
((count and 1) == 1) {\n result += s\n }\n count = count ushr 1\n if
(count == 0) {\n break\n }\n s += s\n }\n return
result\n }\n }\n }\n}\n\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n

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nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"gi\" else \"g\"),
Regex.escapeReplacement(newValue))\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT
S\")\npublic actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"gi\" else \"g\"),
newChar.toString())\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual
fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"i\" else \"\"),
Regex.escapeReplacement(newValue))\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT
S\")\npublic actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"i\" else \"\"),
newChar.toString())\n\n\"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/** Returns the negative [size] if [throwOnMalformed] is
false, throws [CharacterCodingException] otherwise. */\n\n@OptIn(ExperimentalStdlibApi::class)\nprivate fun
malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int {\n if (throwOnMalformed) throw
CharacterCodingException(\"Malformed sequence starting at ${index - 1}\")\n return -size\n}\n\n/** Returns
code point corresponding to UTF-16 surrogate pair,\n * where the first of the pair is the [high] and the second is in
the [string] at the [index].\n * Returns zero if the pair is malformed and [throwOnMalformed] is false.\n */\n\n *
@throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.\n */\n\nprivate fun
codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n
if (high !in 0xD800..0xDBFF || index >= endIndex) {\n return malformed(0, index, throwOnMalformed)\n }
\n val low = string[index].toInt()\n if (low !in 0xDC00..0xDFFF) {\n return malformed(0, index,
throwOnMalformed)\n }
\n return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of two bytes,\n * where the first byte of the sequence is the
[byte1] and the second byte is in the [bytes] array at the [index].\n * Returns zero if the sequence is malformed and
[throwOnMalformed] is false.\n */\n\n * @throws CharacterCodingException if the sequence of two bytes is
malformed and [throwOnMalformed] is true.\n */\n\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index:
Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n if (byte1 and 0x1E == 0 || index >= endIndex) {\n
return malformed(0, index, throwOnMalformed)\n }
\n val byte2 = bytes[index].toInt()\n if (byte2 and 0xC0 !=
0x80) {\n return malformed(0, index, throwOnMalformed)\n }
\n return (byte1 shl 6) xor byte2 xor
0xF80\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of
the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-
positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is
malformed and [throwOnMalformed] is false.\n */\n\n * @throws CharacterCodingException if the sequence of three
bytes is malformed and [throwOnMalformed] is true.\n */\n\nprivate fun codePointFrom3(bytes: ByteArray, byte1:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n if (index >= endIndex) {\n return
malformed(0, index, throwOnMalformed)\n }
\n val byte2 = bytes[index].toInt()\n if (byte1 and 0xF == 0)
{\n if (byte2 and 0xE0 != 0xA0) {\n // Non-shortest form\n return malformed(0, index,
throwOnMalformed)\n }
\n } else if (byte1 and 0xF == 0xD) {\n if (byte2 and 0xE0 != 0x80) {\n //
Surrogate code point\n return malformed(0, index, throwOnMalformed)\n }
\n } else if (byte2 and 0xC0
!= 0x80) {\n return malformed(0, index, throwOnMalformed)\n }
\n if (index + 1 == endIndex) {\n
return malformed(1, index, throwOnMalformed)\n }
\n val byte3 = bytes[index + 1].toInt()\n if (byte3 and
0xC0 != 0x80) {\n return malformed(1, index, throwOnMalformed)\n }
\n return (byte1 shl 12) xor (byte2
shl 6) xor byte3 xor -0x1E080\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of four bytes,\n *
where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n *
Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the
sequence is malformed and [throwOnMalformed] is false.\n */\n\n * @throws CharacterCodingException if the
sequence of four bytes is malformed and [throwOnMalformed] is true.\n */\n\nprivate fun codePointFrom4(bytes:

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ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n if (index >= endIndex) {\n
 malformed(0, index, throwOnMalformed)\n }\n val byte2 = bytes[index].toInt()\n if (byte1 and 0xF ==
0x0) {\n if (byte2 and 0xF0 <= 0x80) {\n // Non-shortest form\n return malformed(0, index,
throwOnMalformed)\n }\n } else if (byte1 and 0xF == 0x4) {\n if (byte2 and 0xF0 != 0x80) {\n //
Out of Unicode code points domain (larger than U+10FFFF)\n return malformed(0, index,
throwOnMalformed)\n }\n } else if (byte1 and 0xF > 0x4) {\n return malformed(0, index,
throwOnMalformed)\n } else if (byte2 and 0xC0 != 0x80) {\n return malformed(0, index,
throwOnMalformed)\n }\n if (index + 1 == endIndex) {\n return malformed(1, index,
throwOnMalformed)\n }\n val byte3 = bytes[index + 1].toInt()\n if (byte3 and 0xC0 != 0x80) {\n return
malformed(1, index, throwOnMalformed)\n }\n if (index + 2 == endIndex) {\n return malformed(2, index,
throwOnMalformed)\n }\n val byte4 = bytes[index + 2].toInt()\n if (byte4 and 0xC0 != 0x80) {\n return
malformed(2, index, throwOnMalformed)\n }\n return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor
byte4 xor 0x381F80)\n}\n\n**\n * Maximum number of bytes needed to encode a single char.\n * Code points in
`0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded in two bytes.\n * Code points
in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate code points in
`0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in
`0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate
const val MAX_BYTES_PER_CHAR = 3\n\n**\n * The byte sequence a malformed UTF-16 char sequence is
replaced by.\n */\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())\n\n**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n
*\n * @param string the string to encode.\n * @param startIndex the start offset (inclusive) of the substring to
encode.\n * @param endIndex the end offset (exclusive) of the substring to encode.\n * @param
throwOnMalformed whether to throw on malformed char sequence or replace by the
[REPLACEMENT_BYTE_SEQUENCE].\n * @throws CharacterCodingException if the char sequence is
malformed and [throwOnMalformed] is true.\n */\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex:
Int, throwOnMalformed: Boolean): ByteArray {\n require(startIndex >= 0 && endIndex <= string.length &&
startIndex <= endIndex)\n val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\n var
byteIndex = 0\n var charIndex = startIndex\n while (charIndex < endIndex) {\n val code =
string[charIndex++].toInt()\n when {\n code < 0x80 -> bytes[byteIndex++] = code.toByte()\n
 code < 0x800 -> {\n bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\n
 bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n }\n code < 0xD800 || code >= 0xE000 ->
{\n bytes[byteIndex++] = (((code shr 12) or 0xE0).toByte()\n bytes[byteIndex++] = (((code shr 6)
and 0x3F) or 0x80).toByte()\n bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n }\n
 else -> { // Surrogate char value\n val codePoint = codePointFromSurrogate(string, code, charIndex,
endIndex, throwOnMalformed)\n if (codePoint <= 0) {\n bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[0]\n bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[1]\n bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\n } else {\n bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n
 bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n bytes[byteIndex++] =
((codePoint and 0x3F) or 0x80).toByte()\n charIndex++\n }\n }\n }\n }\n return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n**\n * The character a malformed
UTF-8 byte sequence is replaced by.\n */\nprivate const val REPLACEMENT_CHAR = "\\uFFFF"\n\n**\n *
Decodes the UTF-8 [bytes] array and returns the resulting [String].\n * @param bytes the byte array to decode.\n
*\n * @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param endIndex the end offset
(exclusive) of the array to be encoded.\n * @param throwOnMalformed whether to throw on malformed byte
sequence or replace by the [REPLACEMENT_CHAR].\n * @throws CharacterCodingException if the array is
malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n */\ninternal fun decodeUtf8(bytes: ByteArray,

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startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n
require(startIndex >= 0 && endIndex <=
bytes.size && startIndex <= endIndex)\n
var byteIndex = startIndex\n
val stringBuilder = StringBuilder()\n
while (byteIndex < endIndex) {\n
val byte = bytes[byteIndex++].toInt()\n
when {\n
byte >= 0 ->\n
stringBuilder.append(byte.toChar())\n
byte shr 5 == -2 -> {\n
val code =
codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n
if (code <= 0) {\n
stringBuilder.append(REPLACEMENT_CHAR)\n
byteIndex += -code\n
} else {\n
stringBuilder.append(code.toChar())\n
byteIndex += 1\n
}\n
}\n
byte shr 4 == -2 -
> {\n
val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n
if
(code <= 0) {\n
stringBuilder.append(REPLACEMENT_CHAR)\n
byteIndex += -code\n
} else {\n
stringBuilder.append(code.toChar())\n
byteIndex += 2\n
}\n
}\n
byte shr 3 == -2 -> {\n
val code = codePointFrom4(bytes, byte, byteIndex, endIndex,
throwOnMalformed)\n
if (code <= 0) {\n
stringBuilder.append(REPLACEMENT_CHAR)\n
byteIndex += -code\n
} else {\n
val high = (code - 0x10000) shr 10 or 0xD800\n
val low = (code and 0x3FFF) or 0xDC00\n
stringBuilder.append(high.toChar())\n
stringBuilder.append(low.toChar())\n
byteIndex += 3\n
}\n
}\n
else -> {\n
malformed(0, byteIndex, throwOnMalformed)\n
stringBuilder.append(REPLACEMENT_CHAR)\n
}\n
}\n
}\n
return stringBuilder.toString()\n
}"/**\n
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Programming Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
 */\n
package kotlin\n
/**\n
 * Returns the detailed description of this
throwable with its stack trace.\n
 * The detailed description includes:\n
 * - the short description (see
[Throwable.toString]) of this throwable;\n
 * - the complete stack trace;\n
 * - detailed descriptions of the exceptions
that were [suppressed][suppressedExceptions] in order to deliver this exception;\n
 * - the detailed description of
each throwable in the [Throwable.cause] chain.\n
 */\n
@SinceKotlin("1.4")\n
public actual fun
Throwable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)\n
/**\n
 * Prints the [detailed
description][Throwable.stackTraceToString] of this throwable to console error output.\n
 */\n
@SinceKotlin("1.4")\n
public actual fun Throwable.printStackTrace() {\n
console.error(this.stackTraceToString())\n
}\n
/**\n
 * Adds the specified exception to the list of exceptions that
were\n
 * suppressed in order to deliver this exception.\n
 */\n
@SinceKotlin("1.4")\n
public actual fun
Throwable.addSuppressed(exception: Throwable) {\n
if (this !== exception) {\n
val suppressed =
this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable?>>()\n
if (suppressed == null) {\n
this.asDynamic()._suppressed = mutableListOf(exception)\n
} else {\n
suppressed.add(exception)\n
}\n
}\n
}\n
}\n
/**\n
 * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n
 */\n
@SinceKotlin("1.4")\n
public actual val Throwable.suppressedExceptions: List<Throwable>\n
get() {\n
return this.asDynamic()._suppressed?.unsafeCast<List<Throwable?>>() ?: emptyList()\n
}\n
}\n
private class
ExceptionTraceBuilder {\n
private val target = StringBuilder()\n
private val visited = arrayOf<Throwable>()\n
private var topStack: String = ""\n
private var topStackStart: Int = 0\n
fun buildFor(exception: Throwable):
String {\n
exception.dumpFullTrace("", "")\n
return target.toString()\n
}\n
private fun
hasSeen(exception: Throwable): Boolean = visited.any { it === exception }\n
private fun
Throwable.dumpFullTrace(indent: String, qualifier: String) {\n
this.dumpSelfTrace(indent, qualifier) ||
return\n
var cause = this.cause\n
while (cause != null) {\n
cause.dumpSelfTrace(indent, "Caused
by: ") || return\n
cause = cause.cause\n
}\n
}\n
private fun Throwable.dumpSelfTrace(indent:
String, qualifier: String): Boolean {\n
target.append(indent).append(qualifier)\n
val shortInfo =
this.toString()\n
if (hasSeen(this)) {\n
target.append("[CIRCULAR REFERENCE, SEE ABOVE:
]").append(shortInfo).append("\\n")\n
return false\n
}\n
visited.asDynamic().push(this)\n
var
stack = this.asDynamic().stack as String?\n
if (stack != null) {\n
val stackStart =
stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }\n
if (stackStart == 0)
target.append(shortInfo).append("\\n")\n
if (topStack.isEmpty()) {\n
topStack = stack\n
topStackStart = stackStart\n
} else {\n
stack = dropCommonFrames(stack, stackStart)\n
}\n
}\n
}

```



```

 if (indent.isNotEmpty()) {\n // indent stack, but avoid indenting exception message lines\n val
messageLines = if (stackStart == 0) 0 else 1 + shortInfo.count { c -> c == '\n' }\n
stack.lineSequence().forEachIndexed { index: Int, line: String ->\n if (index >= messageLines)
target.append(indent)\n target.append(line).append("\n")\n }\n } else {\n
target.append(stack).append("\n")\n }\n } else {\n target.append(shortInfo).append("\n")\n
}\n\n val suppressed = suppressedExceptions\n if (suppressed.isNotEmpty()) {\n val
suppressedIndent = indent + "\n " for (s in suppressed) {\n s.dumpFullTrace(suppressedIndent,
"\nSuppressed: ")\n }\n }\n return true\n }\n\n private fun dropCommonFrames(stack: String,
stackStart: Int): String {\n var commonFrames: Int = 0\n var lastBreak: Int = 0\n var preLastBreak: Int
= 0\n for (pos in 0 until minOf(topStack.length - topStackStart, stack.length - stackStart)) {\n val c =
stack[stack.lastIndex - pos]\n if (c != topStack[topStack.lastIndex - pos]) break\n if (c == '\n') {\n
 commonFrames += 1\n preLastBreak = lastBreak\n lastBreak = pos\n }\n
}\n if (commonFrames <= 1) return stack\n while (preLastBreak > 0 && stack[stack.lastIndex - (preLastBreak - 1)]
== '\n')\n preLastBreak -= 1\n // leave 1 common frame to ease matching with the top exception stack\n
return stack.dropLast(preLastBreak) + "\n... and ${commonFrames - 1} more common stack frames skipped"\n
}\n }"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.time\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic actual enum class
DurationUnit(internal val scale: Double) {\n /**\n * Time unit representing one nanosecond, which is 1/1000 of
a microsecond.\n */\n NANOSECONDS(1e0),\n /**\n * Time unit representing one microsecond, which is
1/1000 of a millisecond.\n */\n MICROSECONDS(1e3),\n /**\n * Time unit representing one millisecond,
which is 1/1000 of a second.\n */\n MILLISECONDS(1e6),\n /**\n * Time unit representing one second.\n
*/\n SECONDS(1e9),\n /**\n * Time unit representing one minute.\n */\n MINUTES(60e9),\n /**\n
 * Time unit representing one hour.\n */\n HOURS(3600e9),\n /**\n * Time unit representing one day,
which is always equal to 24 hours.\n */\n DAYS(86400e9);\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal actual fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\n val
sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n return when {\n
sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\n sourceCompareTarget < 0 -> value /
(targetUnit.scale / sourceUnit.scale)\n else -> value\n }\n}\n"/*\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.time\n\nimport
org.w3c.performance.GlobalPerformance\nimport
org.w3c.performance.Performance\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal actual object
MonotonicTimeSource : TimeSource {\n private val actualSource: TimeSource = run {\n val isNode:
Boolean = js("typeof process !== 'undefined' && process.versions && !!process.versions.node")\n if
(isNode)\n HrTimeSource(js("process").unsafeCast<Process>())\n else\n
js("self").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource)\n ?:\n
DateNowTimeSource\n }\n override fun markNow(): TimeMark = actualSource.markNow()\n}\n\ninternal
external interface Process {\n fun hrtime(time: Array<Double> = definedExternally):
Array<Double>}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal class HrTimeSource(val process:
Process) : TimeSource {\n override fun markNow(): TimeMark = object : TimeMark() {\n val startedAt =
process.hrtime()\n override fun elapsedNow(): Duration =\n process.hrtime(startedAt).let { (seconds,
nanos) -> seconds.seconds + nanos.nanoseconds }\n }\n override fun toString(): String =
"\nTimeSource(process.hrtime())"\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal class
PerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit =
DurationUnit.MILLISECONDS) {\n override fun read(): Double = performance.now()\n override fun toString():
String = "\nTimeSource(self.performance.now())"\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal

```

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object DateNowTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {
 override
 fun read(): Double = kotlin.js.Date.now()
 override fun toString(): String = "TimeSource(Date.now())"
}
/*
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 */
package
kotlin.time
import kotlin.js.json
import kotlin.math.*
internal actual fun formatToExactDecimals(value:
Double, decimals: Int): String {
 val rounded = if (decimals == 0) {
 value
 } else {
 val pow =
10.0.pow(decimals)
 @Suppress("DEPRECATION", "DEPRECATION_ERROR")
 kotlin.js.Math.round(abs(value) * pow) / pow * sign(value)
 }
 return
rounded.asDynamic().toFixed(decimals).unsafeCast<String>()
}
internal actual fun
formatUpToDecimals(value: Double, decimals: Int): String {
 return value.asDynamic().toLocaleString("en-us",
json("maximumFractionDigits" to decimals)).unsafeCast<String>()
}
internal actual fun
formatScientific(value: Double): String {
 return
value.asDynamic().toExponential(2).unsafeCast<String>()
}
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can be found in the license/LICENSE.txt file.
 */
package kotlinx.dom
import org.w3c.dom.*
import
kotlin.contracts.*
/**
 * Creates a new element with the specified [name].
 * The element is initialized with
the specified [init] function.
 */
@SinceKotlin("1.4")
public fun Document.createElement(name: String, init:
Element.() -> Unit): Element {
 contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }
 return
createElement(name).apply(init)
}
/**
 * Appends a newly created element with the specified [name] to this
element.
 * The element is initialized with the specified [init] function.
 */
@SinceKotlin("1.4")
public fun
Element.appendChild(name: String, init: Element.() -> Unit): Element {
 contract { callsInPlace(init,
InvocationKind.EXACTLY_ONCE) }
 return ownerDocument!!.createElement(name, init).also {
 appendChild(it)
 }
}
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license/LICENSE.txt file.
 */
package kotlinx.dom
import org.w3c.dom.*
/**
 * Returns true if the element
has the given CSS class style in its 'class' attribute
 */
@SinceKotlin("1.4")
fun Element.hasClass(cssClass:
String): Boolean = className.matches("\\s*(^|\\s+)$cssClass(\\s+.*|\\s|$)".toRegex())
/**
 * Adds CSS class
to element. Has no effect if all specified classes are already in class attribute of the element
 */
@return true if at
least one class has been added
@SinceKotlin("1.4")
fun Element.addClass(vararg cssClasses: String):
Boolean {
 val missingClasses = cssClasses.filterNot { hasClass(it) }
 if (missingClasses.isNotEmpty()) {
 val presentClasses = className.trim()
 className = buildString {
 append(presentClasses)
 if
(!presentClasses.isEmpty()) {
 append(" ")
 }
 missingClasses.joinTo(this, " ")
 }
 return true
 }
 return false
}
/**
 * Removes all [cssClasses] from element. Has no effect if all
specified classes are missing in class attribute of the element
 */
@return true if at least one class has been
removed
@SinceKotlin("1.4")
fun Element.removeClass(vararg cssClasses: String): Boolean {
 if
(cssClasses.any { hasClass(it) }) {
 val toBeRemoved = cssClasses.toSet()
 className =
className.trim().split("\\s+").toRegex().filter { it !in toBeRemoved }.joinToString(" ")
 return true
 }
 return false
}
}
/*
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license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
package
kotlin.text
/**
 * Converts the string into a regular expression [Regex] with the default options.
 */
@kotlin.internal.InlineOnly
public inline fun String.toRegex(): Regex = Regex(this)
/**
 * Converts the
string into a regular expression [Regex] with the specified single [option].
 */
@kotlin.internal.InlineOnly
public
inline fun String.toRegex(option: RegexOptions): Regex = Regex(this, option)
/**
 * Converts the string into a
regular expression [Regex] with the specified set of [options].
 */
@kotlin.internal.InlineOnly
public inline fun
String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)
}
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```
\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("StringsKt")\n\n@file:Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n\npackage kotlin.text\n\nimport kotlin.contracts.\n\n/**\n * A mutable sequence of characters.\n * String builder can be used to efficiently perform multiple string manipulation operations.\n */\n\nexpect class StringBuilder : Appendable, CharSequence {\n /** Constructs an empty string builder. */\n constructor()\n\n /** Constructs an empty string builder with the specified initial [capacity]. */\n constructor(capacity: Int)\n\n /** Constructs a string builder that contains the same characters as the specified [content] char sequence. */\n constructor(content: CharSequence)\n\n /** Constructs a string builder that contains the same characters as the specified [content] string. */\n @SinceKotlin("1.3")\n\n @ExperimentalStdlibApi\n constructor(content: String)\n\n override val length: Int\n\n override operator fun get(index: Int): Char\n\n override fun subSequence(startIndex: Int, endIndex: Int): CharSequence\n\n override fun append(value: Char): StringBuilder\n\n override fun append(value: CharSequence?): StringBuilder\n\n override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder\n\n /**\n * Reverses the contents of this string builder and returns this instance.\n * Surrogate pairs included in this string builder are treated as single characters.\n * Therefore, the order of the high-low surrogates is never reversed.\n * Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the operation.\n * For example, reversing `"\uDC00\uD800"` produces `"\uD800\uDC00"` which is a valid surrogate pair.\n */\n fun reverse(): StringBuilder\n\n /**\n * Appends the string representation of the specified object [value] to this string builder and returns this instance.\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was appended to this string builder.\n */\n fun append(value: Any?): StringBuilder\n\n /**\n * Appends the string representation of the specified boolean [value] to this string builder and returns this instance.\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was appended to this string builder.\n */\n @SinceKotlin("1.3")\n fun append(value: Boolean): StringBuilder\n\n /**\n * Appends characters in the specified character array [value] to this string builder and returns this instance.\n * Characters are appended in order, starting at the index 0.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun append(value: CharArray): StringBuilder\n\n /**\n * Appends the specified string [value] to this string builder and returns this instance.\n * If [value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are appended.\n */\n @SinceKotlin("1.3")\n fun append(value: String?): StringBuilder\n\n /**\n * Returns the current capacity of this string builder.\n * The capacity is the maximum length this string builder can have before an allocation occurs.\n */\n @SinceKotlin("1.3")\n\n @ExperimentalStdlibApi\n @Deprecated("Obtaining StringBuilder capacity is not supported in JS and common code.", level = DeprecationLevel.ERROR)\n fun capacity(): Int\n\n /**\n * Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n * If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n * Otherwise, this method takes no action and simply returns.\n */\n @SinceKotlin("1.4")\n\n @WasExperimental(ExperimentalStdlibApi::class)\n fun ensureCapacity(minimumCapacity: Int)\n\n /**\n * Returns the index within this string builder of the first occurrence of the specified [string].\n * Returns -1 if the specified [string] does not occur in this string builder.\n */\n @SinceKotlin("1.4")\n\n @WasExperimental(ExperimentalStdlibApi::class)\n fun indexOf(string: String): Int\n\n /**\n * Returns the index within this string builder of the first occurrence of the specified [string],\n * starting at the specified [startIndex].\n * Returns -1 if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun indexOf(string: String, startIndex: Int): Int\n\n /**\n * Returns the index within this string builder of the last occurrence of the specified [string].\n * The last occurrence of empty string `""` is considered to be at the index equal to `this.length`.\n * Returns -1 if the specified [string] does not occur in this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun lastIndexOf(string: String): Int\n\n /**\n * Returns the index within this string builder of the last occurrence of the specified [string],\n */
```

```

starting from the specified [startIndex] toward the beginning.\n * Returns -1 if the specified [string] does
not occur in this string builder starting at the specified [startIndex].\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun lastIndexOf(string: String, startIndex: Int): Int\n
/**\n * Inserts the string representation of the specified boolean [value] into this string builder at the specified
[index] and returns this instance.\n * The overall effect is exactly as if the [value] were converted to a string
by the `value.toString()` method,\n * and then that string was inserted into this string builder at the specified
[index].\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n *^n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun
insert(index: Int, value: Boolean): StringBuilder\n /**\n * Inserts the specified character [value] into this
string builder at the specified [index] and returns this instance.\n * @throws IndexOutOfBoundsException
if [index] is less than zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Char): StringBuilder\n /**\n
* Inserts characters in the specified character array [value] into this string builder at the specified [index] and
returns this instance.\n * The inserted characters go in same order as in the [value] character array, starting
at [index].\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length
of this string builder.\n *^n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
fun insert(index: Int, value: CharArray): StringBuilder\n /**\n * Inserts characters in the specified character
sequence [value] into this string builder at the specified [index] and returns this instance.\n * The inserted
characters go in the same order as in the [value] character sequence, starting at [index].\n * @param index
the position in this string builder to insert at.\n * @param value the character sequence from which characters are
inserted. If [value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are inserted.\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *^n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value:
CharSequence?): StringBuilder\n /**\n * Inserts the string representation of the specified object [value] into
this string builder at the specified [index] and returns this instance.\n * The overall effect is exactly as if the
[value] were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this
string builder at the specified [index].\n * @throws IndexOutOfBoundsException if [index] is less than
zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Any?): StringBuilder\n /**\n
* Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n * If
[value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are inserted.\n * @throws IndexOutOfBoundsException
if [index] is less than zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: String?): StringBuilder\n
/**\n * Sets the length of this string builder to the specified [newLength].\n * If the [newLength] is less
than the current length, it is changed to the specified [newLength].\n * Otherwise, null characters `'\u0000'` are
appended to this string builder until its length is less than the [newLength].\n * Note that in Kotlin/JS [set]
operator function has non-constant execution time complexity.\n * Therefore, increasing length of this string
builder and then updating each character by index may slow down your program.\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n *^n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun setLength(newLength:
Int)\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive)
and up to the [length] (exclusive).\n * @throws IndexOutOfBoundsException if [startIndex] is less than
zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int): String\n /**\n * Returns
a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex]
(exclusive).\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex]
or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n *^n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int,

```



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*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of the [value] character sequence indices or when `startIndex > endIndex`. \n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts
characters in a subarray of the specified character array [value] into this string builder at the specified [index] and
returns this instance.\n * The inserted characters go in same order as in the [value] array, starting at [index].\n
*\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters
are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the
end (exclusive) of the subarray to insert.\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
`startIndex > endIndex`. \n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the
length of this string builder.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n *
Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified
[index] and returns this instance.\n * The inserted characters go in the same order as in the [value] character
sequence, starting at [index].\n * @param index the position in this string builder to insert at.\n * @param value
the character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the
subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException if
[index] is less than zero or greater than the length of this string builder.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int):
StringBuilder\n\n @Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n @Deprecated("Use
append(value: Any?) instead", ReplaceWith("append(value = obj)")),
DeprecationLevel.WARNING)\n @kotlin.internal.InlineOnly\n public inline fun StringBuilder.append(obj: Any?):
StringBuilder = this.append(obj)\n\n/**\n * Builds new string by populating newly created [StringBuilder] using
provided [builderAction]\n * and then converting it to [String].\n * @kotlin.internal.InlineOnly\n public inline fun
buildString(builderAction: String Builder.() -> Unit): String { \n contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) } \n return StringBuilder().apply(builderAction).toString()\n }\n\n/**\n *
Builds new string by populating newly created [StringBuilder] initialized with the given [capacity]\n * using
provided [builderAction] and then converting it to [String].\n
*\n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public inline fun buildString(capacity: Int, builderAction:
String Builder.() -> Unit): String { \n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)
} \n return StringBuilder(capacity).apply(builderAction).toString()\n }\n\n/**\n * Appends all arguments to the
given String Builder.\n * @public fun StringBuilder.append(vararg value: String?): String Builder { \n for (item in
value)\n append(item)\n return this\n }\n\n/**\n * Appends all arguments to the given String Builder.\n
*\n public fun StringBuilder.append(vararg value: Any?): String Builder { \n for (item in value)\n
append(item)\n return this\n }\n\n/**\n * Appends a line feed character (`\n`) to this String Builder.
*\n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun StringBuilder.appendLine():
StringBuilder = append("\n")\n\n/**\n * Appends [value] to this [StringBuilder], followed by a line feed character
(`\n`).\n * @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun StringBuilder.appendLine(value:
CharSequence?): String Builder = append(value).appendLine()\n\n/**\n * Appends [value] to this [StringBuilder],
followed by a line feed character (`\n`).\n * @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun
StringBuilder.appendLine(value: String?): String Builder = append(value).appendLine()\n\n/**\n * Appends [value] to
this [StringBuilder], followed by a line feed character (`\n`).\n
*\n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun StringBuilder.appendLine(value: Any?):

```

```

StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this [StringBuilder], followed by a line feed
character (`\n`). */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: CharArray): StringBuilder = append(value).appendLine()\n\n/** Appends [value]
to this [StringBuilder], followed by a line feed character (`\n`).
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: Char):
StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this [StringBuilder], followed by a line feed
character (`\n`). */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: Boolean): StringBuilder = append(value).appendLine()\n\n"/**\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.xml\nimport
org.w3c.dom.*\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a
CDATA_SECTION_NODE.\n */\n@SinceKotlin("1.4")\npublic val Node.isText: Boolean\n get() = nodeType
== Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\n\n/**\n * Gets a value indicating
whether this node is an [Element].\n */\n@SinceKotlin("1.4")\npublic val Node.isElement: Boolean\n get() =
nodeType == Node.ELEMENT_NODE\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.xml\nimport org.w3c.dom.*\n\n/**\n * Removes all the children
from this node.\n */\n@SinceKotlin("1.4")\npublic fun Node.clear() {\n while (hasChildNodes()) {\n
 removeChild(firstChild!)\n }\n}\n\n/**\n * Creates text node and append it to the element.\n */\n@return this
element\n */\n@SinceKotlin("1.4")\nfun Element.appendChild(text: String): Element {\n
 appendChild(ownerDocument!!.createTextNode(text))\n return this\n}\n\n"/**\n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom\n@Deprecated("Use
UnionMessagePortOrWindowProxy instead.", ReplaceWith("UnionMessagePortOrWindowProxy"))\ninterface UnionMessagePortOrWindow
= UnionMessagePortOrWindowProxy\n\n@Deprecated("Use `as` instead.",
ReplaceWith("`as`"))\nvar HTMLLinkElement.as_: Element\n get() = `as`\n set(value) {\n `as` = value\n
 }\n\n@Deprecated("Use `is` instead.", ReplaceWith("`is`"))\nvar ElementCreationOptions.is_: Boolean\n get() = `is`\n
set(value) {\n `is` = value\n }\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See
github.com/kotlin/dukat for details\n\npackage org.khronos.webgl\nimport kotlin.js.*\nimport
org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport
org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external interface WebGLContextAttributes {\n var alpha:
Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n var depth: Boolean?
/* = true */\n get() = definedExternally\n set(value) = definedExternally\n var stencil: Boolean? /* = false
/\n get() = definedExternally\n set(value) = definedExternally\n var antialias: Boolean? / = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var premultipliedAlpha: Boolean? /* = true */\n
 get() = definedExternally\n set(value) = definedExternally\n var preserveDrawingBuffer: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var
preferLowPowerToHighPerformance: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var failIfMajorPerformanceCaveat: Boolean? /* = false */\n get() = definedExternally\n
 set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
WebGLContextAttributes(alpha: Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias:
Boolean? = true, premultipliedAlpha: Boolean? = true, preserveDrawingBuffer: Boolean? = false,

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preferLowPowerToHighPerformance: Boolean? = false, failIfMajorPerformanceCaveat: Boolean? = false):
WebGLContextAttributes {\n val o = js("{})")\n o["alpha"] = alpha\n o["depth"] = depth\n o["stencil"]
= stencil\n o["antialias"] = antialias\n o["premultipliedAlpha"] = premultipliedAlpha\n
o["preserveDrawingBuffer"] = preserveDrawingBuffer\n o["preferLowPowerToHighPerformance"] =
preferLowPowerToHighPerformance\n o["failIfMajorPerformanceCaveat"] = failIfMajorPerformanceCaveat\n
return o}\n\npublic external abstract class WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\n */\npublic external
abstract class WebGLBuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n */\npublic
external abstract class WebGLFramebuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n */\npublic external
abstract class WebGLProgram : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\n */\npublic
external abstract class WebGLRenderbuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n */\npublic external
abstract class WebGLShader : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n */\npublic external
abstract class WebGLTexture : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\n
*/\npublic external abstract class WebGLUniformLocation\n\n/**\n * Exposes the JavaScript
[WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\n */\npublic
external abstract class WebGLActiveInfo {\n open val size: Int\n open val type: Int\n open val name:
String\n}\n\n/**\n * Exposes the JavaScript
[WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to
Kotlin\n */\npublic external abstract class WebGLShaderPrecisionFormat {\n open val rangeMin: Int\n open val
rangeMax: Int\n open val precision:
Int\n}\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
WebGLRenderingContextBase {\n val canvas: HTMLCanvasElement\n val drawingBufferWidth: Int\n val
drawingBufferHeight: Int\n fun getContextAttributes(): WebGLContextAttributes?\n fun isContextLost():
Boolean\n fun getSupportedExtensions(): Array<String>?\n fun getExtension(name: String): dynamic\n fun
activeTexture(texture: Int)\n fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun
bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n fun bindBuffer(target: Int, buffer:
WebGLBuffer?)\n fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)\n fun
bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)\n fun bindTexture(target: Int, texture:
WebGLTexture?)\n fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)\n fun
blendEquation(mode: Int)\n fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n fun
blendFunc(sfactor: Int, dfactor: Int)\n fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha:
Int)\n fun bufferData(target: Int, size: Int, usage: Int)\n fun bufferData(target: Int, data: BufferDataSource?,
usage: Int)\n fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)\n fun
checkFramebufferStatus(target: Int): Int\n fun clear(mask: Int)\n fun clearColor(red: Float, green: Float, blue:
Float, alpha: Float)\n fun clearDepth(depth: Float)\n fun clearStencil(s: Int)\n fun colorMask(red: Boolean,
green: Boolean, blue: Boolean, alpha: Boolean)\n fun compileShader(shader: WebGLShader?)\n fun
compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data:
ArrayBufferView)\n fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int,
height: Int, format: Int, data: ArrayBufferView)\n fun copyTexImage2D(target: Int, level: Int, internalformat: Int,
x: Int, y: Int, width: Int, height: Int, border: Int)\n fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int,
yoffset: Int, x: Int, y: Int, width: Int, height: Int)\n fun createBuffer(): WebGLBuffer?\n fun createFramebuffer():
WebGLFramebuffer?\n fun createProgram(): WebGLProgram?\n fun createRenderbuffer():

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WebGLRenderbuffer?)\n fun createShader(type: Int): WebGLShader?)\n fun createTexture(): WebGLTexture?)\n
fun cullFace(mode: Int)\n fun deleteBuffer(buffer: WebGLBuffer?)\n fun deleteFramebuffer(framebuffer:
WebGLFramebuffer?)\n fun deleteProgram(program: WebGLProgram?)\n fun deleteRenderbuffer(renderbuffer:
WebGLRenderbuffer?)\n fun deleteShader(shader: WebGLShader?)\n fun deleteTexture(texture:
WebGLTexture?)\n fun depthFunc(func: Int)\n fun depthMask(flag: Boolean)\n fun depthRange(zNear: Float,
zFar: Float)\n fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun disable(cap: Int)\n
fun disableVertexAttribArray(index: Int)\n fun drawArrays(mode: Int, first: Int, count: Int)\n fun
drawElements(mode: Int, count: Int, type: Int, offset: Int)\n fun enable(cap: Int)\n fun
enableVertexAttribArray(index: Int)\n fun finish()\n fun flush()\n fun framebufferRenderbuffer(target: Int,
attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n fun framebufferTexture2D(target:
Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n fun frontFace(mode: Int)\n fun
generateMipmap(target: Int)\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?)\n
fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun
getAttachedShaders(program: WebGLProgram?): Array<WebGLShader?>\n fun getAttribLocation(program:
WebGLProgram?, name: String): Int\n fun getBufferParameter(target: Int, pname: Int): Any?\n fun
getParameter(pname: Int): Any?\n fun getError(): Int\n fun getFramebufferAttachmentParameter(target: Int,
attachment: Int, pname: Int): Any?\n fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n
fun getProgramInfoLog(program: WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname:
Int): Any?\n fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun
getShaderPrecisionFormat(shadertype: Int, precisiontype: Int): WebGLShaderPrecisionFormat?\n fun
getShaderInfoLog(shader: WebGLShader?): String?\n fun getShaderSource(shader: WebGLShader?): String?\n
fun getTexParameter(target: Int, pname: Int): Any?\n fun getUniform(program: WebGLProgram?, location:
WebGLUniformLocation?): Any?\n fun getUniformLocation(program: WebGLProgram?, name: String):
WebGLUniformLocation?\n fun getVertexAttrib(index: Int, pname: Int): Any?\n fun
getVertexAttribOffset(index: Int, pname: Int): Int\n fun hint(target: Int, mode: Int)\n fun isBuffer(buffer:
WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n fun isFramebuffer(framebuffer:
WebGLFramebuffer?): Boolean\n fun isProgram(program: WebGLProgram?): Boolean\n fun
isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n fun isShader(shader: WebGLShader?): Boolean\n
fun isTexture(texture: WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n fun linkProgram(program:
WebGLProgram?)\n fun pixelStorei(pname: Int, param: Int)\n fun polygonOffset(factor: Float, units: Float)\n
fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun
renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)\n fun sampleCoverage(value: Float,
invert: Boolean)\n fun scissor(x: Int, y: Int, width: Int, height: Int)\n fun shaderSource(shader: WebGLShader?,
source: String)\n fun stencilFunc(func: Int, ref: Int, mask: Int)\n fun stencilFuncSeparate(face: Int, func: Int, ref:
Int, mask: Int)\n fun stencilMask(mask: Int)\n fun stencilMaskSeparate(face: Int, mask: Int)\n fun
stencilOp(fail: Int, zfail: Int, zpass: Int)\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun
texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels:
ArrayBufferView?)\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source:
TexImageSource?)\n fun texParameterf(target: Int, pname: Int, param: Float)\n fun texParameteri(target: Int,
pname: Int, param: Int)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int,
format: Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset:
Int, format: Int, type: Int, source: TexImageSource?)\n fun uniform1f(location: WebGLUniformLocation?, x:
Float)\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location: WebGLUniformLocation?, x: Int)\n fun
uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform1iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y:
Float)\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform2fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n

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fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float,
z: Float)\n fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform3fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z:
Int)\n fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float,
z: Float, w: Float)\n fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n fun
uniform4fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform4i(location:
WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)\n fun uniform4iv(location: WebGLUniformLocation?, v:
Int32Array)\n fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun
uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
useProgram(program: WebGLProgram?)\n fun validateProgram(program: WebGLProgram?)\n fun
vertexAttrib1f(index: Int, x: Float)\n fun vertexAttrib1fv(index: Int, values: dynamic)\n fun
vertexAttrib2f(index: Int, x: Float, y: Float)\n fun vertexAttrib2fv(index: Int, values: dynamic)\n fun
vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n fun vertexAttrib3fv(index: Int, values: dynamic)\n fun
vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n fun vertexAttrib4fv(index: Int, values: dynamic)\n
fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int)\n fun
viewport(x: Int, y: Int, width: Int, height: Int)\n\n companion object {\n val DEPTH_BUFFER_BIT: Int\n
val STENCIL_BUFFER_BIT: Int\n val COLOR_BUFFER_BIT: Int\n val POINTS: Int\n val LINES:
Int\n val LINE_LOOP: Int\n val LINE_STRIP: Int\n val TRIANGLES: Int\n val
TRIANGLE_STRIP: Int\n val TRIANGLE_FAN: Int\n val ZERO: Int\n val ONE: Int\n val
SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR: Int\n val SRC_ALPHA: Int\n val
ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val ONE_MINUS_DST_ALPHA: Int\n
val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n val SRC_ALPHA_SATURATE: Int\n
val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val BLEND_EQUATION_RGB: Int\n val
BLEND_EQUATION_ALPHA: Int\n val FUNC_SUBTRACT: Int\n val FUNC_REVERSE_SUBTRACT:
Int\n val BLEND_DST_RGB: Int\n val BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n
val BLEND_SRC_ALPHA: Int\n val CONSTANT_COLOR: Int\n val
ONE_MINUS_CONSTANT_COLOR: Int\n val CONSTANT_ALPHA: Int\n val
ONE_MINUS_CONSTANT_ALPHA: Int\n val BLEND_COLOR: Int\n val ARRAY_BUFFER: Int\n
val ELEMENT_ARRAY_BUFFER: Int\n val ARRAY_BUFFER_BINDING: Int\n val
ELEMENT_ARRAY_BUFFER_BINDING: Int\n val STREAM_DRAW: Int\n val STATIC_DRAW: Int\n
val DYNAMIC_DRAW: Int\n val BUFFER_SIZE: Int\n val BUFFER_USAGE: Int\n val
CURRENT_VERTEX_ATTRIB: Int\n val FRONT: Int\n val BACK: Int\n val FRONT_AND_BACK:
Int\n val CULL_FACE: Int\n val BLEND: Int\n val DITHER: Int\n val STENCIL_TEST: Int\n
val DEPTH_TEST: Int\n val SCISSOR_TEST: Int\n val POLYGON_OFFSET_FILL: Int\n val
SAMPLE_ALPHA_TO_COVERAGE: Int\n val SAMPLE_COVERAGE: Int\n val NO_ERROR: Int\n
val INVALID_ENUM: Int\n val INVALID_VALUE: Int\n val INVALID_OPERATION: Int\n val
OUT_OF_MEMORY: Int\n val CW: Int\n val CCW: Int\n val LINE_WIDTH: Int\n val
ALIASED_POINT_SIZE_RANGE: Int\n val ALIASED_LINE_WIDTH_RANGE: Int\n val
CULL_FACE_MODE: Int\n val FRONT_FACE: Int\n val DEPTH_RANGE: Int\n val
DEPTH_WRITEMASK: Int\n val DEPTH_CLEAR_VALUE: Int\n val DEPTH_FUNC: Int\n val
STENCIL_CLEAR_VALUE: Int\n val STENCIL_FUNC: Int\n val STENCIL_FAIL: Int\n val

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STENCIL\_PASS\_DEPTH\_FAIL: Int\n val STENCIL\_PASS\_DEPTH\_PASS: Int\n val STENCIL\_REF:  
 Int\n val STENCIL\_VALUE\_MASK: Int\n val STENCIL\_WRITEMASK: Int\n val  
 STENCIL\_BACK\_FUNC: Int\n val STENCIL\_BACK\_FAIL: Int\n val  
 STENCIL\_BACK\_PASS\_DEPTH\_FAIL: Int\n val STENCIL\_BACK\_PASS\_DEPTH\_PASS: Int\n val  
 STENCIL\_BACK\_REF: Int\n val STENCIL\_BACK\_VALUE\_MASK: Int\n val  
 STENCIL\_BACK\_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR\_BOX: Int\n val  
 COLOR\_CLEAR\_VALUE: Int\n val COLOR\_WRITEMASK: Int\n val UNPACK\_ALIGNMENT: Int\n  
 val PACK\_ALIGNMENT: Int\n val MAX\_TEXTURE\_SIZE: Int\n val MAX\_VIEWPORT\_DIMS: Int\n  
 val SUBPIXEL\_BITS: Int\n val RED\_BITS: Int\n val GREEN\_BITS: Int\n val BLUE\_BITS: Int\n  
 val ALPHA\_BITS: Int\n val DEPTH\_BITS: Int\n val STENCIL\_BITS: Int\n val  
 POLYGON\_OFFSET\_UNITS: Int\n val POLYGON\_OFFSET\_FACTOR: Int\n val  
 TEXTURE\_BINDING\_2D: Int\n val SAMPLE\_BUFFERS: Int\n val SAMPLES: Int\n val  
 SAMPLE\_COVERAGE\_VALUE: Int\n val SAMPLE\_COVERAGE\_INVERT: Int\n val  
 COMPRESSED\_TEXTURE\_FORMATS: Int\n val DONT\_CARE: Int\n val FASTEST: Int\n val  
 NICEST: Int\n val GENERATE\_MIPMAP\_HINT: Int\n val BYTE: Int\n val UNSIGNED\_BYTE:  
 Int\n val SHORT: Int\n val UNSIGNED\_SHORT: Int\n val INT: Int\n val UNSIGNED\_INT: Int\n  
 val FLOAT: Int\n val DEPTH\_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val  
 RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE\_ALPHA: Int\n val  
 UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n val UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n val  
 UNSIGNED\_SHORT\_5\_6\_5: Int\n val FRAGMENT\_SHADER: Int\n val VERTEX\_SHADER: Int\n  
 val MAX\_VERTEX\_ATTRIBS: Int\n val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n val  
 MAX\_VARYING\_VECTORS: Int\n val MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n val SHADER\_TYPE: Int\n val DELETE\_STATUS:  
 Int\n val LINK\_STATUS: Int\n val VALIDATE\_STATUS: Int\n val ATTACHED\_SHADERS: Int\n  
 val ACTIVE\_UNIFORMS: Int\n val ACTIVE\_ATTRIBUTES: Int\n val  
 SHADING\_LANGUAGE\_VERSION: Int\n val CURRENT\_PROGRAM: Int\n val NEVER: Int\n val  
 LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n  
 val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n  
 val DECR: Int\n val INVERT: Int\n val INCR\_WRAP: Int\n val DECR\_WRAP: Int\n val  
 VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR:  
 Int\n val NEAREST\_MIPMAP\_NEAREST: Int\n val LINEAR\_MIPMAP\_NEAREST: Int\n val  
 NEAREST\_MIPMAP\_LINEAR: Int\n val LINEAR\_MIPMAP\_LINEAR: Int\n val  
 TEXTURE\_MAG\_FILTER: Int\n val TEXTURE\_MIN\_FILTER: Int\n val TEXTURE\_WRAP\_S: Int\n  
 val TEXTURE\_WRAP\_T: Int\n val TEXTURE\_2D: Int\n val TEXTURE: Int\n val  
 TEXTURE\_CUBE\_MAP: Int\n val TEXTURE\_BINDING\_CUBE\_MAP: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n val  
 MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val  
 TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val  
 TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val  
 TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val  
 TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val  
 TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val  
 TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val  
 TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val  
 TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE\_TEXTURE: Int\n val REPEAT: Int\n



STATIC\_DRAW: Int\n val DYNAMIC\_DRAW: Int\n val BUFFER\_SIZE: Int\n val  
 BUFFER\_USAGE: Int\n val CURRENT\_VERTEX\_ATTRIB: Int\n val FRONT: Int\n val BACK:  
 Int\n val FRONT\_AND\_BACK: Int\n val CULL\_FACE: Int\n val BLEND: Int\n val DITHER:  
 Int\n val STENCIL\_TEST: Int\n val DEPTH\_TEST: Int\n val SCISSOR\_TEST: Int\n val  
 POLYGON\_OFFSET\_FILL: Int\n val SAMPLE\_ALPHA\_TO\_COVERAGE: Int\n val  
 SAMPLE\_COVERAGE: Int\n val NO\_ERROR: Int\n val INVALID\_ENUM: Int\n val  
 INVALID\_VALUE: Int\n val INVALID\_OPERATION: Int\n val OUT\_OF\_MEMORY: Int\n val CW:  
 Int\n val CCW: Int\n val LINE\_WIDTH: Int\n val ALIASED\_POINT\_SIZE\_RANGE: Int\n val  
 ALIASED\_LINE\_WIDTH\_RANGE: Int\n val CULL\_FACE\_MODE: Int\n val FRONT\_FACE: Int\n  
 val DEPTH\_RANGE: Int\n val DEPTH\_WRITEMASK: Int\n val DEPTH\_CLEAR\_VALUE: Int\n val  
 DEPTH\_FUNC: Int\n val STENCIL\_CLEAR\_VALUE: Int\n val STENCIL\_FUNC: Int\n val  
 STENCIL\_FAIL: Int\n val STENCIL\_PASS\_DEPTH\_FAIL: Int\n val STENCIL\_PASS\_DEPTH\_PASS:  
 Int\n val STENCIL\_REF: Int\n val STENCIL\_VALUE\_MASK: Int\n val STENCIL\_WRITEMASK:  
 Int\n val STENCIL\_BACK\_FUNC: Int\n val STENCIL\_BACK\_FAIL: Int\n val  
 STENCIL\_BACK\_PASS\_DEPTH\_FAIL: Int\n val STENCIL\_BACK\_PASS\_DEPTH\_PASS: Int\n val  
 STENCIL\_BACK\_REF: Int\n val STENCIL\_BACK\_VALUE\_MASK: Int\n val  
 STENCIL\_BACK\_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR\_BOX: Int\n val  
 COLOR\_CLEAR\_VALUE: Int\n val COLOR\_WRITEMASK: Int\n val UNPACK\_ALIGNMENT: Int\n  
 val PACK\_ALIGNMENT: Int\n val MAX\_TEXTURE\_SIZE: Int\n val MAX\_VIEWPORT\_DIMS: Int\n  
 val SUBPIXEL\_BITS: Int\n val RED\_BITS: Int\n val GREEN\_BITS: Int\n val BLUE\_BITS: Int\n  
 val ALPHA\_BITS: Int\n val DEPTH\_BITS: Int\n val STENCIL\_BITS: Int\n val  
 POLYGON\_OFFSET\_UNITS: Int\n val POLYGON\_OFFSET\_FACTOR: Int\n val  
 TEXTURE\_BINDING\_2D: Int\n val SAMPLE\_BUFFERS: Int\n val SAMPLES: Int\n val  
 SAMPLE\_COVERAGE\_VALUE: Int\n val SAMPLE\_COVERAGE\_INVERT: Int\n val  
 COMPRESSED\_TEXTURE\_FORMATS: Int\n val DONT\_CARE: Int\n val FASTEST: Int\n val  
 NICEST: Int\n val GENERATE\_MIPMAP\_HINT: Int\n val BYTE: Int\n val UNSIGNED\_BYTE:  
 Int\n val SHORT: Int\n val UNSIGNED\_SHORT: Int\n val INT: Int\n val UNSIGNED\_INT: Int\n  
 val FLOAT: Int\n val DEPTH\_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val  
 RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE\_ALPHA: Int\n val  
 UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n val UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n val  
 UNSIGNED\_SHORT\_5\_6\_5: Int\n val FRAGMENT\_SHADER: Int\n val VERTEX\_SHADER: Int\n  
 val MAX\_VERTEX\_ATTRIBS: Int\n val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n val  
 MAX\_VARYING\_VECTORS: Int\n val MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n val SHADER\_TYPE: Int\n val DELETE\_STATUS:  
 Int\n val LINK\_STATUS: Int\n val VALIDATE\_STATUS: Int\n val ATTACHED\_SHADERS: Int\n  
 val ACTIVE\_UNIFORMS: Int\n val ACTIVE\_ATTRIBUTES: Int\n val  
 SHADING\_LANGUAGE\_VERSION: Int\n val CURRENT\_PROGRAM: Int\n val NEVER: Int\n val  
 LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n  
 val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n  
 val DECR: Int\n val INVERT: Int\n val INCR\_WRAP: Int\n val DECR\_WRAP: Int\n val  
 VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR:  
 Int\n val NEAREST\_MIPMAP\_NEAREST: Int\n val LINEAR\_MIPMAP\_NEAREST: Int\n val  
 NEAREST\_MIPMAP\_LINEAR: Int\n val LINEAR\_MIPMAP\_LINEAR: Int\n val  
 TEXTURE\_MAG\_FILTER: Int\n val TEXTURE\_MIN\_FILTER: Int\n val TEXTURE\_WRAP\_S: Int\n  
 val TEXTURE\_WRAP\_T: Int\n val TEXTURE\_2D: Int\n val TEXTURE: Int\n val  
 TEXTURE\_CUBE\_MAP: Int\n val TEXTURE\_BINDING\_CUBE\_MAP: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n val

```

TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n val
TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n val
MAX_CUBE_MAP_TEXTURE_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val
TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val
TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val
TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val
TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val
TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val
TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val
TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val
TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE_TEXTURE: Int\n val REPEAT: Int\n
val CLAMP_TO_EDGE: Int\n val MIRRORED_REPEAT: Int\n val FLOAT_VEC2: Int\n val
FLOAT_VEC3: Int\n val FLOAT_VEC4: Int\n val INT_VEC2: Int\n val INT_VEC3: Int\n val
INT_VEC4: Int\n val BOOL: Int\n val BOOL_VEC2: Int\n val BOOL_VEC3: Int\n val
BOOL_VEC4: Int\n val FLOAT_MAT2: Int\n val FLOAT_MAT3: Int\n val FLOAT_MAT4: Int\n
val SAMPLER_2D: Int\n val SAMPLER_CUBE: Int\n val VERTEX_ATTRIB_ARRAY_ENABLED:
Int\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\n val VERTEX_ATTRIB_ARRAY_STRIDE: Int\n
val VERTEX_ATTRIB_ARRAY_TYPE: Int\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n
val VERTEX_ATTRIB_ARRAY_POINTER: Int\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING:
Int\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\n val
IMPLEMENTATION_COLOR_READ_FORMAT: Int\n val COMPILE_STATUS: Int\n val
LOW_FLOAT: Int\n val MEDIUM_FLOAT: Int\n val HIGH_FLOAT: Int\n val LOW_INT: Int\n
val MEDIUM_INT: Int\n val HIGH_INT: Int\n val FRAMEBUFFER: Int\n val RENDERBUFFER:
Int\n val RGBA4: Int\n val RGB5_A1: Int\n val RGB565: Int\n val DEPTH_COMPONENT16:
Int\n val STENCIL_INDEX: Int\n val STENCIL_INDEX8: Int\n val DEPTH_STENCIL: Int\n val
RENDERBUFFER_WIDTH: Int\n val RENDERBUFFER_HEIGHT: Int\n val
RENDERBUFFER_INTERNAL_FORMAT: Int\n val RENDERBUFFER_RED_SIZE: Int\n val
RENDERBUFFER_GREEN_SIZE: Int\n val RENDERBUFFER_BLUE_SIZE: Int\n val
RENDERBUFFER_ALPHA_SIZE: Int\n val RENDERBUFFER_DEPTH_SIZE: Int\n val
RENDERBUFFER_STENCIL_SIZE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n val
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n val
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n val COLOR_ATTACHMENT0:
Int\n val DEPTH_ATTACHMENT: Int\n val STENCIL_ATTACHMENT: Int\n val
DEPTH_STENCIL_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER_COMPLETE: Int\n
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n val
FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n val
FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n val FRAMEBUFFER_UNSUPPORTED: Int\n
val FRAMEBUFFER_BINDING: Int\n val RENDERBUFFER_BINDING: Int\n val
MAX_RENDERBUFFER_SIZE: Int\n val INVALID_FRAMEBUFFER_OPERATION: Int\n val
UNPACK_FLIP_Y_WEBGL: Int\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n val
CONTEXT_LOST_WEBGL: Int\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n val
BROWSER_DEFAULT_WEBGL: Int\n }\n}\n\n/**\n * Exposes the JavaScript
[WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin\n
*/\n\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =
definedExternally) : Event {\n open val statusMessage: String\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface WebGLContextEventInit : EventInit {\n var statusMessage: String? /* = \"\" */\n

```

```

 get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline
fun WebGLContextEventInit(statusMessage: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): WebGLContextEventInit {\n val o = js(\"({})\")\n o[\"statusMessage\"] =
statusMessage\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin\n */\npublic external open
class ArrayBuffer(length: Int) : BufferDataSource {\n open val byteLength: Int\n fun slice(begin: Int, end: Int =
definedExternally): ArrayBuffer\n\n companion object {\n fun isView(value: Any?): Boolean\n
}\n}\n\n/**\n * Exposes the JavaScript
[ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin\n */\npublic
external interface ArrayBufferView : BufferDataSource {\n val buffer: ArrayBuffer\n val byteOffset: Int\n val
byteLength: Int\n}\n\n/**\n * Exposes the JavaScript
[Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin\n */\npublic external open class
Int8Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Int8Array)\n constructor(array:
Array<Byte>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int =
definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n
override val byteLength: Int\n fun set(array: Int8Array, offset: Int = definedExternally)\n fun set(array:
Array<Byte>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Int8Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun Int8Array.get(index: Int): Byte = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
Int8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin\n */\npublic external open class
Uint8Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Uint8Array)\n
constructor(array: Array<Byte>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Uint8Array, offset: Int = definedExternally)\n fun set(array:
Array<Byte>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Uint8Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun Uint8Array.get(index: Int): Byte = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin\n */\npublic
external open class Uint8ClampedArray : ArrayBufferView {\n constructor(length: Int)\n constructor(array:
Uint8ClampedArray)\n constructor(array: Array<Byte>)\n constructor(buffer: ArrayBuffer, byteOffset: Int =
definedExternally, length: Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n
override val byteOffset: Int\n override val byteLength: Int\n fun set(array: Uint8ClampedArray, offset: Int =
definedExternally)\n fun set(array: Array<Byte>, offset: Int = definedExternally)\n fun subarray(start: Int, end:
Int): Uint8ClampedArray\n\n companion object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8ClampedArray.get(index: Int): Byte =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8ClampedArray.set(index: Int,
value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\n */\npublic external open class
Int16Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Int16Array)\n
constructor(array: Array<Short>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Int16Array, offset: Int = definedExternally)\n fun set(array:
Array<Short>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Int16Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun Int16Array.get(index: Int): Short = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator

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fun Uint16Array.set(index: Int, value: Short) { asDynamic()[index] = value } \n\n/** \n * Exposes the JavaScript
[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin \n\n * \n\npublic external open
class Uint16Array : ArrayBufferView { \n constructor(length: Int) \n constructor(array: Uint16Array) \n
constructor(array: Array<Short>) \n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally) \n open val length: Int \n override val buffer: ArrayBuffer \n override val byteOffset:
Int \n override val byteLength: Int \n fun set(array: Uint16Array, offset: Int = definedExternally) \n fun set(array:
Array<Short>, offset: Int = definedExternally) \n fun subarray(start: Int, end: Int): Uint16Array \n\n companion
object { \n val BYTES_PER_ELEMENT: Int \n } \n} \n\n@kotlin.internal.InlineOnly \npublic inline operator
fun Uint16Array.get(index: Int): Short = asDynamic()[index] \n\n@kotlin.internal.InlineOnly \npublic inline operator
fun Uint16Array.set(index: Int, value: Short) { asDynamic()[index] = value } \n\n/** \n * Exposes the JavaScript
[Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin \n\n * \n\npublic external open class
Int32Array : ArrayBufferView { \n constructor(length: Int) \n constructor(array: Int32Array) \n
constructor(array: Array<Int>) \n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally) \n open val length: Int \n override val buffer: ArrayBuffer \n override val byteOffset: Int \n
override val byteLength: Int \n fun set(array: Int32Array, offset: Int = definedExternally) \n fun set(array:
Array<Int>, offset: Int = definedExternally) \n fun subarray(start: Int, end: Int): Int32Array \n\n companion object
{ \n val BYTES_PER_ELEMENT: Int \n } \n} \n\n@kotlin.internal.InlineOnly \npublic inline operator fun
Int32Array.get(index: Int): Int = asDynamic()[index] \n\n@kotlin.internal.InlineOnly \npublic inline operator fun
Int32Array.set(index: Int, value: Int) { asDynamic()[index] = value } \n\n/** \n * Exposes the JavaScript
[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin \n\n * \n\npublic external open
class Uint32Array : ArrayBufferView { \n constructor(length: Int) \n constructor(array: Uint32Array) \n
constructor(array: Array<Int>) \n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally) \n open val length: Int \n override val buffer: ArrayBuffer \n override val byteOffset: Int \n
override val byteLength: Int \n fun set(array: Uint32Array, offset: Int = definedExternally) \n fun set(array:
Array<Int>, offset: Int = definedExternally) \n fun subarray(start: Int, end: Int): Uint32Array \n\n companion
object { \n val BYTES_PER_ELEMENT: Int \n } \n} \n\n@kotlin.internal.InlineOnly \npublic inline operator
fun Uint32Array.get(index: Int): Int = asDynamic()[index] \n\n@kotlin.internal.InlineOnly \npublic inline operator
fun Uint32Array.set(index: Int, value: Int) { asDynamic()[index] = value } \n\n/** \n * Exposes the JavaScript
[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin \n\n * \n\npublic external open
class Float32Array : ArrayBufferView { \n constructor(length: Int) \n constructor(array: Float32Array) \n
constructor(array: Array<Float>) \n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally) \n open val length: Int \n override val buffer: ArrayBuffer \n override val byteOffset:
Int \n override val byteLength: Int \n fun set(array: Float32Array, offset: Int = definedExternally) \n fun
set(array: Array<Float>, offset: Int = definedExternally) \n fun subarray(start: Int, end: Int): Float32Array \n\n
companion object { \n val BYTES_PER_ELEMENT: Int \n } \n} \n\n@kotlin.internal.InlineOnly \npublic inline
operator fun Float32Array.get(index: Int): Float = asDynamic()[index] \n\n@kotlin.internal.InlineOnly \npublic inline
operator fun Float32Array.set(index: Int, value: Float) { asDynamic()[index] = value } \n\n/** \n * Exposes the
JavaScript [Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin \n\n * \n\npublic
external open class Float64Array : ArrayBufferView { \n constructor(length: Int) \n constructor(array:
Float64Array) \n constructor(array: Array<Double>) \n constructor(buffer: ArrayBuffer, byteOffset: Int =
definedExternally, length: Int = definedExternally) \n open val length: Int \n override val buffer: ArrayBuffer \n
override val byteOffset: Int \n override val byteLength: Int \n fun set(array: Float64Array, offset: Int =
definedExternally) \n fun set(array: Array<Double>, offset: Int = definedExternally) \n fun subarray(start: Int,
end: Int): Float64Array \n\n companion object { \n val BYTES_PER_ELEMENT: Int \n } \n} \n\n@kotlin.internal.InlineOnly \npublic inline operator fun Float64Array.get(index: Int): Double =
asDynamic()[index] \n\n@kotlin.internal.InlineOnly \npublic inline operator fun Float64Array.set(index: Int, value:
Double) { asDynamic()[index] = value } \n\n/** \n * Exposes the JavaScript
[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin \n\n * \n\npublic external open class

```



```

DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) :
ArrayBufferView {\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n override val
byteLength: Int\n fun getInt8(byteOffset: Int): Byte\n fun getUInt8(byteOffset: Int): Byte\n fun
getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n fun getUInt16(byteOffset: Int,
littleEndian: Boolean = definedExternally): Short\n fun getInt32(byteOffset: Int, littleEndian: Boolean =
definedExternally): Int\n fun getUInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n fun
getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\n fun getFloat64(byteOffset: Int,
littleEndian: Boolean = definedExternally): Double\n fun setInt8(byteOffset: Int, value: Byte)\n fun
setUInt8(byteOffset: Int, value: Byte)\n fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean =
definedExternally)\n fun setUInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n
fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n fun setUInt32(byteOffset: Int,
value: Int, littleEndian: Boolean = definedExternally)\n fun setFloat32(byteOffset: Int, value: Float, littleEndian:
Boolean = definedExternally)\n fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean =
definedExternally)\n}\n\npublic external interface BufferDataSource\n\npublic external interface
TexImageSource", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.clipboard\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic
external interface ClipboardEventInit : EventInit {\n var clipboardData: DataTransfer? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ClipboardEventInit(clipboardData: DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): ClipboardEventInit {\n val o = js("{}")\n o["clipboardData"] =
clipboardData\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n */\n\npublic external
open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\n open
val clipboardData: DataTransfer?\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\n/**\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to
Kotlin\n */\n\npublic external abstract class Clipboard : EventTarget {\n fun read(): Promise<DataTransfer>\n fun
readText(): Promise<String>\n fun write(data: DataTransfer): Promise<Unit>\n fun writeText(data: String):
Promise<Unit>\n}\n\npublic external interface ClipboardPermissionDescriptor {\n var allowWithoutGesture:
Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n val
o = js("{}")\n o["allowWithoutGesture"] = allowWithoutGesture\n return o\n}", "/*\n * Copyright 2010-
2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.css\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport

```

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org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class MediaList : ItemArrayLike<String> {\n
open var mediaText: String\n fun appendMedium(medium: String)\n fun deleteMedium(medium: String)\n
override fun item(index: Int): String?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
MediaList.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n */\npublic external abstract
class StyleSheet {\n open val type: String\n open val href: String?\n open val ownerNode:
UnionElementOrProcessingInstruction?\n open val parentStyleSheet: StyleSheet?\n open val title: String?\n
open val media: MediaList\n open var disabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\n */\npublic external
abstract class CSSStyleSheet : StyleSheet {\n open val ownerRule: CSSRule?\n open val cssRules:
CSSRuleList\n fun insertRule(rule: String, index: Int): Int\n fun deleteRule(index: Int)\n}\n\n/**\n * Exposes the
JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n */\npublic
external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n override fun item(index: Int):
StyleSheet?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun StyleSheetList.get(index: Int):
StyleSheet? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n */\npublic external interface
LinkStyle {\n val sheet: StyleSheet?\n get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\n */\npublic external abstract
class CSSRuleList : ItemArrayLike<CSSRule> {\n override fun item(index: Int):
CSSRule?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSRuleList.get(index: Int): CSSRule? =
asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n */\npublic external abstract class
CSSRule {\n open val type: Short\n open var cssText: String\n open val parentRule: CSSRule?\n open val
parentStyleSheet: CSSStyleSheet?\n\n companion object {\n val STYLE_RULE: Short\n val
CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val
FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val
NAMESPACE_RULE: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\n */\npublic external
abstract class CSSStyleRule : CSSRule {\n open var selectorText: String\n open val style:
CSSStyleDeclaration\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE:
Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n
val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n
}\n}\n\npublic external abstract class CSSImportRule : CSSRule {\n open val href: String\n open val media:
MediaList\n open val styleSheet: CSSStyleSheet\n\n companion object {\n val STYLE_RULE: Short\n
val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val
FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val
NAMESPACE_RULE: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin\n */\npublic
external abstract class CSSGroupingRule : CSSRule {\n open val cssRules: CSSRuleList\n fun insertRule(rule:
String, index: Int): Int\n fun deleteRule(index: Int)\n\n companion object {\n val STYLE_RULE: Short\n
val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val
FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val
NAMESPACE_RULE: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\n */\npublic external
abstract class CSSMediaRule : CSSGroupingRule {\n open val media: MediaList\n\n companion object {\n
val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val IMPORT_RULE: Short\n val
MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val PAGE_RULE: Short\n val

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MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin\n */\npublic external
abstract class CSSPageRule : CSSGroupingRule {\n open var selectorText: String\n open val style:
CSSStyleDeclaration\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE:
Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n
 val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n
 }\n}\n\npublic external abstract class CSSMarginRule : CSSRule {\n open val name: String\n open val style:
CSSStyleDeclaration\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE:
Short\n val IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n
 val PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n
 }\n}\n\n/**\n * Exposes the JavaScript
[CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin\n */\npublic
external abstract class CSSNamespaceRule : CSSRule {\n open val namespaceURI: String\n open val prefix:
String\n\n companion object {\n val STYLE_RULE: Short\n val CHARSET_RULE: Short\n val
IMPORT_RULE: Short\n val MEDIA_RULE: Short\n val FONT_FACE_RULE: Short\n val
PAGE_RULE: Short\n val MARGIN_RULE: Short\n val NAMESPACE_RULE: Short\n }\n}\n\n/**\n *
Exposes the JavaScript
[CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin\n */\npublic
external abstract class CSSStyleDeclaration : ItemArrayLike<String> {\n open var cssText: String\n open val
parentRule: CSSRule?\n open var cssFloat: String\n open var alignContent: String\n open var alignItems:
String\n open var alignSelf: String\n open var animation: String\n open var animationDelay: String\n open
var animationDirection: String\n open var animationDuration: String\n open var animationFillMode: String\n
 open var animationIterationCount: String\n open var animationName: String\n open var animationPlayState:
String\n open var animationTimingFunction: String\n open var backfaceVisibility: String\n open var
background: String\n open var backgroundAttachment: String\n open var backgroundClip: String\n open var
backgroundColor: String\n open var backgroundImage: String\n open var backgroundOrigin: String\n open var
backgroundPosition: String\n open var backgroundRepeat: String\n open var backgroundSize: String\n open
var border: String\n open var borderBottom: String\n open var borderBottomColor: String\n open var
borderBottomLeftRadius: String\n open var borderBottomRightRadius: String\n open var borderBottomStyle:
String\n open var borderBottomWidth: String\n open var borderCollapse: String\n open var borderColor:
String\n open var borderImage: String\n open var borderImageOutset: String\n open var borderImageRepeat:
String\n open var borderImageSlice: String\n open var borderImageSource: String\n open var
borderImageWidth: String\n open var borderLeft: String\n open var borderLeftColor: String\n open var
borderLeftStyle: String\n open var borderLeftWidth: String\n open var borderRadius: String\n open var
borderRight: String\n open var borderRightColor: String\n open var borderRightStyle: String\n open var
borderRightWidth: String\n open var borderSpacing: String\n open var borderStyle: String\n open var
borderTop: String\n open var borderTopColor: String\n open var borderTopLeftRadius: String\n open var
borderTopRightRadius: String\n open var borderTopStyle: String\n open var borderTopWidth: String\n open
var borderWidth: String\n open var bottom: String\n open var boxDecorationBreak: String\n open var
boxShadow: String\n open var boxSizing: String\n open var breakAfter: String\n open var breakBefore:
String\n open var breakInside: String\n open var captionSide: String\n open var clear: String\n open var clip:
String\n open var color: String\n open var columnCount: String\n open var columnFill: String\n open var
columnGap: String\n open var columnRule: String\n open var columnRuleColor: String\n open var
columnRuleStyle: String\n open var columnRuleWidth: String\n open var columnSpan: String\n open var
columnWidth: String\n open var columns: String\n open var content: String\n open var counterIncrement:
String\n open var counterReset: String\n open var cursor: String\n open var direction: String\n open var
display: String\n open var emptyCells: String\n open var filter: String\n open var flex: String\n open var
flexBasis: String\n open var flexDirection: String\n open var flexFlow: String\n open var flexGrow: String\n

```

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open var flexShrink: String\n open var flexWrap: String\n open var font: String\n open var fontFamily:
String\n open var fontFeatureSettings: String\n open var fontKerning: String\n open var
fontLanguageOverride: String\n open var fontSize: String\n open var fontSizeAdjust: String\n open var
fontStretch: String\n open var fontStyle: String\n open var fontSynthesis: String\n open var fontVariant:
String\n open var fontVariantAlternates: String\n open var fontVariantCaps: String\n open var
fontVariantEastAsian: String\n open var fontVariantLigatures: String\n open var fontVariantNumeric: String\n
open var fontVariantPosition: String\n open var fontWeight: String\n open var hangingPunctuation: String\n
open var height: String\n open var hyphens: String\n open var imageOrientation: String\n open var
imageRendering: String\n open var imageResolution: String\n open var imeMode: String\n open var
justifyContent: String\n open var left: String\n open var letterSpacing: String\n open var lineBreak: String\n
open var lineHeight: String\n open var listStyle: String\n open var listStyleImage: String\n open var
listStylePosition: String\n open var listStyleType: String\n open var margin: String\n open var marginBottom:
String\n open var marginLeft: String\n open var marginRight: String\n open var marginTop: String\n open
var mark: String\n open var markAfter: String\n open var markBefore: String\n open var marks: String\n
open var marqueeDirection: String\n open var marqueePlayCount: String\n open var marqueeSpeed: String\n
open var marqueeStyle: String\n open var mask: String\n open var maskType: String\n open var maxHeight:
String\n open var maxWidth: String\n open var minHeight: String\n open var minWidth: String\n open var
navDown: String\n open var navIndex: String\n open var navLeft: String\n open var navRight: String\n open
var navUp: String\n open var objectFit: String\n open var objectPosition: String\n open var opacity: String\n
open var order: String\n open var orphans: String\n open var outline: String\n open var outlineColor: String\n
open var outlineOffset: String\n open var outlineStyle: String\n open var outlineWidth: String\n open var
overflowWrap: String\n open var overflowX: String\n open var overflowY: String\n open var padding:
String\n open var paddingBottom: String\n open var paddingLeft: String\n open var paddingRight: String\n
open var paddingTop: String\n open var pageBreakAfter: String\n open var pageBreakBefore: String\n open
var pageBreakInside: String\n open var perspective: String\n open var perspectiveOrigin: String\n open var
phonemes: String\n open var position: String\n open var quotes: String\n open var resize: String\n open var
rest: String\n open var restAfter: String\n open var restBefore: String\n open var right: String\n open var
tabSize: String\n open var tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n
open var textCombineUpright: String\n open var textDecoration: String\n open var textDecorationColor:
String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent:
String\n open var textJustify: String\n open var textOrientation: String\n open var textOverflow: String\n
open var textShadow: String\n open var textTransform: String\n open var textUnderlinePosition: String\n open
var top: String\n open var transform: String\n open var transformOrigin: String\n open var transformStyle:
String\n open var transition: String\n open var transitionDelay: String\n open var transitionDuration: String\n
open var transitionProperty: String\n open var transitionTimingFunction: String\n open var unicodeBidi:
String\n open var verticalAlign: String\n open var visibility: String\n open var voiceBalance: String\n open
var voiceDuration: String\n open var voicePitch: String\n open var voicePitchRange: String\n open var
voiceRate: String\n open var voiceStress: String\n open var voiceVolume: String\n open var whiteSpace:
String\n open var widows: String\n open var width: String\n open var wordBreak: String\n open var
wordSpacing: String\n open var wordWrap: String\n open var writingMode: String\n open var zIndex: String\n
open var _dashed_attribute: String\n open var _camel_cased_attribute: String\n open var
_webkit_cased_attribute: String\n fun getPropertyValue(property: String): String\n fun
getPropertyPriority(property: String): String\n fun setProperty(property: String, value: String, priority: String =
definedExternally)\n fun setPropertyValue(property: String, value: String)\n fun setPropertyPriority(property:
String, priority: String)\n fun removeProperty(property: String): String\n override fun item(index: Int):
String\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSStyleDeclaration.get(index: Int): String? =
asDynamic()[index]\n\npublic external interface ElementCSSInlineStyle {\n val style:
CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript

```

[CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin

```

public external abstract class CSS {
 companion object {
 fun escape(ident: String): String
 }
}

public external interface UnionElementOrProcessingInstruction, /* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 * NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
 * See github.com/kotlin/dukat for details
 */
package org.w3c.dom.encryptedmedia
import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.mediasource.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external interface MediaKeySystemConfiguration {
 var label: String? /* = "" */
 get() = definedExternally
 set(value) = definedExternally
 var initDataTypes: Array<String>? /* = arrayOf() */
 get() = definedExternally
 set(value) = definedExternally
 var audioCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */
 get() = definedExternally
 set(value) = definedExternally
 var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */
 get() = definedExternally
 set(value) = definedExternally
 var distinctiveIdentifier: MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */
 get() = definedExternally
 set(value) = definedExternally
 var persistentState: MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */
 get() = definedExternally
 set(value) = definedExternally
 var sessionTypes: Array<String>?
 get() = definedExternally
 set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun MediaKeySystemConfiguration(label: String? = "", initDataTypes: Array<String>? = arrayOf(), audioCapabilities: Array<MediaKeySystemMediaCapability>? = arrayOf(), videoCapabilities: Array<MediaKeySystemMediaCapability>? = arrayOf(), distinctiveIdentifier: MediaKeysRequirement? = MediaKeysRequirement.OPTIONAL, persistentState: MediaKeysRequirement? = MediaKeysRequirement.OPTIONAL, sessionTypes: Array<String>? = undefined): MediaKeySystemConfiguration {
 val o = js("{}")
 o["label"] = label
 o["initDataTypes"] = initDataTypes
 o["audioCapabilities"] = audioCapabilities
 o["videoCapabilities"] = videoCapabilities
 o["distinctiveIdentifier"] = distinctiveIdentifier
 o["persistentState"] = persistentState
 o["sessionTypes"] = sessionTypes
 return o
}

public external interface MediaKeySystemMediaCapability {
 var contentType: String? /* = "" */
 get() = definedExternally
 set(value) = definedExternally
 var robustness: String? /* = "" */
 get() = definedExternally
 set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun MediaKeySystemMediaCapability(contentType: String? = "", robustness: String? = ""): MediaKeySystemMediaCapability {
 val o = js("{}")
 o["contentType"] = contentType
 o["robustness"] = robustness
 return o
}

public external abstract class MediaKeySystemAccess {
 open val keySystem: String
 fun getConfiguration(): MediaKeySystemConfiguration
 fun createMediaKeys(): Promise<MediaKeys>
}

public external abstract class MediaKeys {
 fun createSession(sessionType: MediaKeySessionType = definedExternally): MediaKeySession
 fun setServerCertificate(serverCertificate: dynamic): Promise<Boolean>
}

public external abstract class MediaKeySession : EventTarget {
 open val sessionId: String
 open val expiration: Double
 open val closed: Promise<Unit>
 open val keyStatuses: MediaKeyStatusMap
 open var onkeystatuschange: ((Event) -> dynamic)?
 open var onmessage: ((MessageEvent) -> dynamic)?
 fun generateRequest(initDataType: String, initData: dynamic): Promise<Unit>
 fun load(sessionId: String): Promise<Boolean>
 fun update(response: dynamic): Promise<Unit>
 fun close(): Promise<Unit>
 fun remove(): Promise<Unit>
}

public external abstract class MediaKeyStatusMap {
 open val size: Int
 fun has(keyId: dynamic): Boolean
 fun get(keyId: dynamic): Any?
}

public external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) : Event {
 open val

```

```

messageType: MediaKeyMessageType\n open val message: ArrayBuffer\n\n companion object {\n val
NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n\n public external interface MediaKeyMessageEventInit : EventInit {\n var
messageType: MediaKeyMessageType?\n get() = definedExternally\n set(value) = definedExternally\n
var message: ArrayBuffer?\n get() = definedExternally\n set(value) =
definedExternally\n }\n\n @kotlin.internal.InlineOnly\n public inline fun MediaKeyMessageEventInit(messageType:
MediaKeyMessageType?, message: ArrayBuffer?, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): MediaKeyMessageEventInit {\n val o = js("{}")\n o["messageType"] =
messageType\n o["message"] = message\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o\n }\n\n public external open class MediaEncryptedEvent(type: String,
eventInitDict: MediaEncryptedEventInit = definedExternally) : Event {\n open val initDataType: String\n open
val initData: ArrayBuffer?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n\n public external interface
MediaEncryptedEventInit : EventInit {\n var initDataType: String? /* = "" */\n get() = definedExternally\n
set(value) = definedExternally\n var initData: ArrayBuffer? /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n }\n\n @kotlin.internal.InlineOnly\n public inline fun
MediaEncryptedEventInit(initDataType: String? = "", initData: ArrayBuffer? = null, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): MediaEncryptedEventInit {\n val o = js("{}")\n
o["initDataType"] = initDataType\n o["initData"] = initData\n o["bubbles"] = bubbles\n o["cancelable"]
= cancelable\n o["composed"] = composed\n return o\n }\n\n /* please, don't implement this interface!
*/\n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n public external interface
MediaKeysRequirement {\n companion object\n }\n\n public inline val
MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() =
"required".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n public inline val
MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() =
"optional".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n public inline val
MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = "not-
allowed".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n /* please, don't implement this interface!
*/\n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n public external interface
MediaKeySessionType {\n companion object\n }\n\n public inline val
MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() =
"temporary".asDynamic().unsafeCast<MediaKeySessionType>()\n\n public inline val
MediaKeySessionType.Companion.PERSISTENT_LICENSE: MediaKeySessionType get() = "persistent-
license".asDynamic().unsafeCast<MediaKeySessionType>()\n\n /* please, don't implement this interface!
*/\n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n public external interface MediaKeyStatus
{\n companion object\n }\n\n public inline val MediaKeyStatus.Companion.USABLE: MediaKeyStatus get() =
"usable".asDynamic().unsafeCast<MediaKeyStatus>()\n\n public inline val
MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() =
"expired".asDynamic().unsafeCast<MediaKeyStatus>()\n\n public inline val
MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() =
"released".asDynamic().unsafeCast<MediaKeyStatus>()\n\n public inline val
MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = "output-
restricted".asDynamic().unsafeCast<MediaKeyStatus>()\n\n public inline val
MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus get() = "output-
downscaled".asDynamic().unsafeCast<MediaKeyStatus>()\n\n public inline val
MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = "status-
pending".asDynamic().unsafeCast<MediaKeyStatus>()\n\n public inline val
MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = "internal-

```



```

CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface MouseEventInit : EventModifierInit {\n var screenX: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var screenY: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var clientX: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var clientY: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var button: Short? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var buttons: Short? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var relatedTarget: EventTarget? /* = null */\n get()
= definedExternally\n set(value) = definedExternally\n var region: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MouseEventInit(screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons:
Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean?
= false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): MouseEventInit {\n val o = js("{}")\n o["screenX"] = screenX\n o["screenY"] = screenY\n
o["clientX"] = clientX\n o["clientY"] = clientY\n o["button"] = button\n o["buttons"] = buttons\n
o["relatedTarget"] = relatedTarget\n o["region"] = region\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] =
shiftKey\n o["altKey"] = altKey\n o["metaKey"] = metaKey\n o["modifierAltGraph"] =
modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n o["modifierFn"] = modifierFn\n
o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] = modifierHyper\n o["modifierNumLock"] =
modifierNumLock\n o["modifierScrollLock"] = modifierScrollLock\n o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] =
view\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n var ctrlKey: Boolean?
/* = false */\n get() = definedExternally\n set(value) = definedExternally\n var shiftKey: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var altKey: Boolean? /* = false
/\n get() = definedExternally\n set(value) = definedExternally\n var metaKey: Boolean? / = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierAltGraph: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierCapsLock: Boolean? /* = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierFn: Boolean? / = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierFnLock: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierHyper: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierNumLock: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierScrollLock: Boolean? /* = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierSuper: Boolean? / = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierSymbol: Boolean? / = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierSymbolLock: Boolean? / =
false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventModifierInit(ctrlKey: Boolean? =
false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): EventModifierInit {\n val o = js("{}")\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] = shiftKey\n

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o["altKey"] = altKey\n o["metaKey"] = metaKey\n o["modifierAltGraph"] = modifierAltGraph\n
o["modifierCapsLock"] = modifierCapsLock\n o["modifierFn"] = modifierFn\n o["modifierFnLock"] =
modifierFnLock\n o["modifierHyper"] = modifierHyper\n o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] =
view\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\npublic external open
class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n open val
deltaX: Double\n open val deltaY: Double\n open val deltaZ: Double\n open val deltaMode: Int\n\n companion object {\n val DOM_DELTA_PIXEL: Int\n val DOM_DELTA_LINE: Int\n val
DOM_DELTA_PAGE: Int\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface WheelEventInit :
MouseEventInit {\n var deltaX: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var deltaY: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var deltaZ: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var deltaMode: Int? /* = 0 */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WheelEventInit(deltaX: Double? = 0.0,
deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX:
Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region:
String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean?
= false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,
modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,
modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n val o = js("{}")\n
o["deltaX"] = deltaX\n o["deltaY"] = deltaY\n o["deltaZ"] = deltaZ\n o["deltaMode"] = deltaMode\n
o["screenX"] = screenX\n o["screenY"] = screenY\n o["clientX"] = clientX\n o["clientY"] = clientY\n
o["button"] = button\n o["buttons"] = buttons\n o["relatedTarget"] = relatedTarget\n o["region"] =
region\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"] = altKey\n o["metaKey"] =
metaKey\n o["modifierAltGraph"] = modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] =
modifierHyper\n o["modifierNumLock"] = modifierNumLock\n o["modifierScrollLock"] =
modifierScrollLock\n o["modifierSuper"] = modifierSuper\n o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] = view\n o["detail"] = detail\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to
Kotlin\n */\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) :
UIEvent {\n open val data: String\n open val isComposing: Boolean\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface InputEventInit : UIEventInit {\n var data: String? /* = "" */\n
get() = definedExternally\n set(value) = definedExternally\n var isComposing: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
InputEventInit(data: String? = "", isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): InputEventInit {\n val o =
js("{}")\n o["data"] = data\n o["isComposing"] = isComposing\n o["view"] = view\n o["detail"] =
detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript

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[KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n *^\\npublic external
open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n
open val key: String\n open val code: String\n open val location: Int\n open val ctrlKey: Boolean\n open val
shiftKey: Boolean\n open val altKey: Boolean\n open val metaKey: Boolean\n open val repeat: Boolean\n
open val isComposing: Boolean\n open val charCode: Int\n open val keyCode: Int\n open val which: Int\n
fun getModifierState(keyArg: String): Boolean\n\n companion object {\n val
DOM_KEY_LOCATION_STANDARD: Int\n val DOM_KEY_LOCATION_LEFT: Int\n val
DOM_KEY_LOCATION_RIGHT: Int\n val DOM_KEY_LOCATION_NUMPAD: Int\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface KeyboardEventInit : EventModifierInit {\n var key: String? /* = \"\"
/\n get() = definedExternally\n set(value) = definedExternally\n var code: String? / = \"\" */\n get()
= definedExternally\n set(value) = definedExternally\n var location: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var repeat: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var isComposing: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
KeyboardEventInit(key: String? = \"\", code: String? = \"\", location: Int? = 0, repeat: Boolean? = false,
isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn:
Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol:
Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit {\n val o =
js(\"({})\")\n o[\"key\"] = key\n o[\"code\"] = code\n o[\"location\"] = location\n o[\"repeat\"] = repeat\n
o[\"isComposing\"] = isComposing\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] =
altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n
o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] =
modifierFnLock\n o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n
o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] =
view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n *^\\npublic
external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
UIEvent {\n open val data: String\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface CompositionEventInit : UIEventInit {\n var data: String? /* = \"\" */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
CompositionEventInit(data: String? = \"\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit {\n val o = js(\"({})\")\n
o[\"data\"] = data\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"]
= cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n *^\\npublic external open class
Event(type: String, eventInitDict: EventInit = definedExternally) {\n open val type: String\n open val target:
EventTarget?\n open val currentTarget: EventTarget?\n open val eventPhase: Short\n open val bubbles:
Boolean\n open val cancelable: Boolean\n open val defaultPrevented: Boolean\n open val composed:
Boolean\n open val isTrusted: Boolean\n open val timeStamp: Number\n fun composedPath():
Array<EventTarget>\n fun stopPropagation()\n fun stopImmediatePropagation()\n fun preventDefault()\n
fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n companion object {\n val NONE:
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Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n\n/**\n * Exposes the JavaScript
[EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\n */\npublic external abstract
class EventTarget {\n fun addEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n fun removeEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the JavaScript
[EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n */\npublic external
interface EventListener {\n fun handleEvent(event: Event)\n}", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.clipboard.*\nimport
org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class HTMLAllCollection {\n open val
length: Int\n fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\n fun
namedItem(name: String): UnionElementOrHTMLCollection?\n}\n\n@kotlin.internal.InlineOnly\npublic inline
operator fun HTMLAllCollection.get(index: Int): Element? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLAllCollection.get(name:
String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection)
to Kotlin\n */\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes
the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n
*/\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n open var value:
String\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n
*/\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\n override var length: Int\n open
var selectedIndex: Int\n fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before:
dynamic = definedExternally)\n fun remove(index: Int)\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option
}\n\n/**\n * Exposes the JavaScript
[HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n */\npublic external
abstract class HTMLElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers,
ElementContentEditable, ElementCSSInlineStyle {\n open var title: String\n open var lang: String\n open var
translate: Boolean\n open var dir: String\n open val dataset: DOMStringMap\n open var hidden: Boolean\n
open var tabIndex: Int\n open var accessKey: String\n open val accessKeyLabel: String\n open var draggable:
Boolean\n open val dropzone: DOMTokenList\n open var contextMenu: HTMLMenuElement?\n open var
spellcheck: Boolean\n open var innerText: String\n open val offsetParent: Element?\n open val offsetTop: Int\n
open val offsetLeft: Int\n open val offsetWidth: Int\n open val offsetHeight: Int\n fun click()\n fun
focus()\n fun blur()\n fun forceSpellCheck()\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val

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DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin \n
*\npublic external abstract class HTMLUnknownElement : HTMLElement { \n companion object { \n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin \n
*\npublic external
abstract class DOMStringMap \n @kotlin.internal.InlineOnly \npublic inline operator fun
DOMStringMap.get(name: String): String? = asDynamic()[name] \n \n @kotlin.internal.InlineOnly \npublic inline
operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value } \n \n /** \n * Exposes
the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to
Kotlin \n
*\npublic external abstract class HTMLHtmlElement : HTMLElement { \n open var version: String \n \n
companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin \n
*\npublic
external abstract class HTMLHeadElement : HTMLElement { \n companion object { \n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin \n
*\npublic
external abstract class HTMLTitleElement : HTMLElement { \n open var text: String \n \n \n
companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val

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DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin \n \* \n public external abstract class HTMLBaseElement : HTMLElement {\n open var href: String\n open var target: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin \n \* \n public external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\n open var href: String\n open var crossOrigin: String?\n open var rel: String\n open var `as`: RequestDestination\n open val relList: DOMTokenList\n open var media: String\n open var nonce: String\n open var hreflang: String\n open var type: String\n open val sizes: DOMTokenList\n open var referrerPolicy: String\n open var charset: String\n open var rev: String\n open var target: String\n open var scope: String\n open var workerType: WorkerType\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin \n \* \n public external abstract class HTMLMetaElement : HTMLElement {\n open var name: String\n open var httpEquiv: String\n open var content: String\n open var scheme: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin \n \* \n public external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\n open var media: String\n open var nonce: String\n open var type: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val

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ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin \n
*\npublic external abstract class HTMLBodyElement : HTMLInputElement, WindowEventHandlers { \n
open var text: String \n
open var link: String \n
open var vLink: String \n
open var aLink: String \n
open var bgColor: String \n
open
var background: String \n \n
companion object { \n
val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin \n
*\npublic external abstract class HTMLHeadingElement : HTMLInputElement { \n
open var align: String \n
companion object { \n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin \n
*\npublic external abstract class HTMLParagraphElement : HTMLInputElement { \n
open var align: String \n
companion object { \n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin \n
*\npublic external abstract class HTMLHRElement : HTMLInputElement { \n
open var align: String \n
open var color: String \n
open var noShade: Boolean \n
open var size: String \n
open var width: String \n \n
companion object { \n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:

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Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\n *\npublic
external abstract class HTMLPreElement : HTMLElement {\n open var width: Int\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin\n *\npublic
external abstract class HTMLQuoteElement : HTMLElement {\n open var cite: String\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLOListElement) to Kotlin\n *\npublic
external abstract class HTMLLOListElement : HTMLElement {\n open var reversed: Boolean\n open var start:
Int\n open var type: String\n open var compact: Boolean\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLUListElement) to Kotlin\n *\npublic
external abstract class HTMLLUListElement : HTMLElement {\n open var compact: Boolean\n open var type:
String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

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DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin \n * \n public
external abstract class HTMLLIElement : HTMLElement { \n open var value: Int \n open var type: String \n \n
companion object { \n val ELEMENT_NODE: Short \n val ATTRIBUTE_NODE: Short \n val
TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n val ENTITY_REFERENCE_NODE:
Short \n val ENTITY_NODE: Short \n val PROCESSING_INSTRUCTION_NODE: Short \n val
COMMENT_NODE: Short \n val DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n
 val DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
 val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
 val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin \n * \n public
external abstract class HTMLDListElement : HTMLElement { \n open var compact: Boolean \n \n
companion object { \n val ELEMENT_NODE: Short \n val ATTRIBUTE_NODE: Short \n val TEXT_NODE:
Short \n val CDATA_SECTION_NODE: Short \n val ENTITY_REFERENCE_NODE: Short \n val
ENTITY_NODE: Short \n val PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE:
Short \n val DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
 val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
 val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin \n * \n public
external abstract class HTMLDivElement : HTMLElement { \n open var align: String \n \n
companion object { \n val ELEMENT_NODE: Short \n val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val
CDATA_SECTION_NODE: Short \n val ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE:
Short \n val PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
 val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
 val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin \n
* \n public external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils { \n open
var target: String \n open var download: String \n open var ping: String \n open var rel: String \n open val
relList: DOMTokenList \n open var hreflang: String \n open var type: String \n open var text: String \n open
var referrerPolicy: String \n open var coords: String \n open var charset: String \n open var name: String \n
 open var rev: String \n open var shape: String \n \n
companion object { \n val ELEMENT_NODE: Short \n val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n
 val ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE: Short \n val
PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val

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DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin \n * \n public
external abstract class HTMLDataElement : HTMLElement { \n open var value: String \n \n companion object { \n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin \n * \n public
external abstract class HTMLTimeElement : HTMLElement { \n open var dateTime: String \n \n companion
object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin \n * \n public
external abstract class HTMLSpanElement : HTMLElement { \n companion object { \n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin \n * \n public
external abstract class HTMLBRElement : HTMLElement { \n open var clear: String \n \n companion object { \n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript

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CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin \n
*\npublic external abstract class HTMLIFrameElement : HTMLInputElement { \n open var src: String \n open var
srcdoc: String \n open var name: String \n open val sandbox: DOMTokenList \n open var allowFullscreen:
Boolean \n open var allowUserMedia: Boolean \n open var width: String \n open var height: String \n open var
referrerPolicy: String \n open val contentDocument: Document? \n open val contentWindow: Window? \n open
var align: String \n open var scrolling: String \n open var frameBorder: String \n open var longDesc: String \n
 open var marginHeight: String \n open var marginWidth: String \n fun getSVGDocument(): Document? \n \n
companion object { \n val ELEMENT_NODE: Short \n val ATTRIBUTE_NODE: Short \n val
TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n val ENTITY_REFERENCE_NODE:
Short \n val ENTITY_NODE: Short \n val PROCESSING_INSTRUCTION_NODE: Short \n val
COMMENT_NODE: Short \n val DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n
 val DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
 val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
 val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin \n
*\npublic external abstract class HTMLEmbedElement : HTMLInputElement { \n open var src: String \n open var
type: String \n open var width: String \n open var height: String \n open var align: String \n open var name:
String \n fun getSVGDocument(): Document? \n \n companion object { \n val ELEMENT_NODE: Short \n
 val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n
 val ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE: Short \n val
PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
 val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
 val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin \n
*\npublic external abstract class HTMLObjectElement : HTMLInputElement { \n open var data: String \n open var
type: String \n open var typeMustMatch: Boolean \n open var name: String \n open var useMap: String \n open
var form: HTMLFormElement? \n open var width: String \n open var height: String \n open val
contentDocument: Document? \n open val contentWindow: Window? \n open val willValidate: Boolean \n open
val validity: ValidityState \n open val validationMessage: String \n open var align: String \n open var archive:
String \n open var code: String \n open var declare: Boolean \n open var hspace: Int \n open var standby:
String \n open var vspace: Int \n open var codeBase: String \n open var codeType: String \n open var border:
String \n fun getSVGDocument(): Document? \n fun checkValidity(): Boolean \n fun reportValidity():
Boolean \n fun setCustomValidity(error: String) \n \n companion object { \n val ELEMENT_NODE: Short \n
 val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n

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val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin \n
*\npublic external abstract class HTMLParamElement : HTMLElement { \n open var name: String \n open var
value: String \n open var type: String \n open var valueType: String \n \n companion object { \n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin \n
*\npublic external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource { \n
 open var width: Int \n open var height: Int \n open val videoWidth: Int \n open val videoHeight: Int \n open var
poster: String \n open var playsInline: Boolean \n \n companion object { \n val NETWORK_EMPTY: Short\n
 val NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE:
Short\n val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val
HAVE_CURRENT_DATA: Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA:
Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
 val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin \n
*\npublic external abstract class HTMLAudioElement : HTMLMediaElement { \n companion object { \n val
NETWORK_EMPTY: Short\n val NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n
 val NETWORK_NO_SOURCE: Short\n val HAVE_NOTHING: Short\n val HAVE_METADATA:
Short\n val HAVE_CURRENT_DATA: Short\n val HAVE_FUTURE_DATA: Short\n val
HAVE_ENOUGH_DATA: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
 val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

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 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\n */\npublic
external abstract class HTMLTrackElement : HTMLElement {\n open var kind: String\n open var src: String\n
open var srclang: String\n open var label: String\n open var default: Boolean\n open val readyState: Short\n
open val track: TextTrack\n\n companion object {\n val NONE: Short\n val LOADING: Short\n val
LOADED: Short\n val ERROR: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin\n
*/\npublic external abstract class HTMLMediaElement : HTMLElement {\n open val error: MediaError?\n open
var src: String\n open var srcObject: MediaProvider?\n open val currentSrc: String\n open var crossOrigin:
String?\n open val networkState: Short\n open var preload: String\n open val buffered: TimeRanges\n open
val readyState: Short\n open val seeking: Boolean\n open var currentTime: Double\n open val duration:
Double\n open val paused: Boolean\n open var defaultPlaybackRate: Double\n open var playbackRate:
Double\n open val played: TimeRanges\n open val seekable: TimeRanges\n open val ended: Boolean\n open
var autoplay: Boolean\n open var loop: Boolean\n open var controls: Boolean\n open var volume: Double\n
open var muted: Boolean\n open var defaultMuted: Boolean\n open val audioTracks: AudioTrackList\n open
val videoTracks: VideoTrackList\n open val textTracks: TextTrackList\n open val mediaKeys: MediaKeys?\n
open var onencrypted: ((Event) -> dynamic)?\n open var onwaitingforkey: ((Event) -> dynamic)?\n fun load()\n
fun canPlayType(type: String): CanPlayTypeResult\n fun fastSeek(time: Double)\n fun getStartDate():
dynamic\n fun play(): Promise<Unit>\n fun pause()\n fun addTextTrack(kind: TextTrackKind, label: String =
definedExternally, language: String = definedExternally): TextTrack\n fun setMediaKeys(mediaKeys:
MediaKeys?): Promise<Unit>\n\n companion object {\n val NETWORK_EMPTY: Short\n val
NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n
 val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val HAVE_CURRENT_DATA:
Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin\n */\npublic external abstract
class MediaError {\n open val code: Short\n\n companion object {\n val MEDIA_ERR_ABORTED: Short\n
 val MEDIA_ERR_NETWORK: Short\n val MEDIA_ERR_DECODE: Short\n val
MEDIA_ERR_SRC_NOT_SUPPORTED: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin\n */\npublic external

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abstract class AudioTrackList : EventTarget {\n open val length: Int\n open var onchange: ((Event) ->
dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open var onremovetrack: ((TrackEvent) ->
dynamic)?\n fun getTrackById(id: String): AudioTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\n */\npublic external abstract
class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n open val id: String\n open val kind:
String\n open val label: String\n open val language: String\n open var enabled: Boolean\n open val
sourceBuffer: SourceBuffer?\n}\n\n/**\n * Exposes the JavaScript
[VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\n */\npublic external
abstract class VideoTrackList : EventTarget {\n open val length: Int\n open val selectedIndex: Int\n open var
onchange: ((Event) -> dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open var
onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id: String):
VideoTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index: Int):
VideoTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n */\npublic external abstract
class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n open val id: String\n open val kind:
String\n open val label: String\n open val language: String\n open var selected: Boolean\n open val
sourceBuffer: SourceBuffer?\n}\n\npublic external abstract class TextTrackList : EventTarget {\n open val length:
Int\n open var onchange: ((Event) -> dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open
var onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id: String):
TextTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackList.get(index: Int): TextTrack?
= asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n */\npublic external abstract
class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n open val kind: TextTrackKind\n
open val label: String\n open val language: String\n open val id: String\n open val
inBandMetadataTrackDispatchType: String\n open var mode: TextTrackMode\n open val cues:
TextTrackCueList?\n open val activeCues: TextTrackCueList?\n open var oncuechange: ((Event) ->
dynamic)?\n open val sourceBuffer: SourceBuffer?\n fun addCue(cue: TextTrackCue)\n fun removeCue(cue:
TextTrackCue)\n}\n\npublic external abstract class TextTrackCueList {\n open val length: Int\n fun
getCueById(id: String): TextTrackCue?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n */\npublic external
abstract class TextTrackCue : EventTarget {\n open val track: TextTrack?\n open var id: String\n open var
startTime: Double\n open var endTime: Double\n open var pauseOnExit: Boolean\n open var onenter: ((Event)
-> dynamic)?\n open var onexit: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n */\npublic external abstract
class TimeRanges {\n open val length: Int\n fun start(index: Int): Double\n fun end(index: Int):
Double\n}\n\n/**\n * Exposes the JavaScript
[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n */\npublic external open class
TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\n open val track:
UnionAudioTrackOrTextTrackOrVideoTrack?\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface TrackEventInit : EventInit {\n var track:
UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\n\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track:
UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): TrackEventInit {\n val o = js("{}")\n o["track"] = track\n o["bubbles"] =
bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the

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JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin
*/\npublic external abstract class HTMLMapElement : HTMLElement {\n open var name: String\n open val
areas: HTMLCollection\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin
*/\npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {\n open var alt:
String\n open var coords: String\n open var shape: String\n open var target: String\n open var download:
String\n open var ping: String\n open var rel: String\n open val relList: DOMTokenList\n open var
referrerPolicy: String\n open var noHref: Boolean\n\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin
*/\npublic external abstract class HTMLTableElement : HTMLElement {\n open var caption:
HTMLTableCaptionElement?\n open var tHead: HTMLTableSectionElement?\n open var tFoot:
HTMLTableSectionElement?\n open val tBodies: HTMLCollection\n open val rows: HTMLCollection\n open
var align: String\n open var border: String\n open var frame: String\n open var rules: String\n open var
summary: String\n open var width: String\n open var bgColor: String\n open var cellPadding: String\n open
var cellSpacing: String\n fun createCaption(): HTMLTableCaptionElement\n fun deleteCaption()\n fun
createTHead(): HTMLTableSectionElement\n fun deleteTHead()\n fun createTFoot():
HTMLTableSectionElement\n fun deleteTFoot()\n fun createTBody(): HTMLTableSectionElement\n fun
insertRow(index: Int = definedExternally): HTMLTableRowElement\n fun deleteRow(index: Int)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to
Kotlin
*/\npublic external abstract class HTMLTableCaptionElement : HTMLElement {\n open var align:
String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n

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val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin \n
*\npublic external abstract class HTMLTableColElement : HTMLElement { \n open var span: Int \n open var
align: String \n open var ch: String \n open var chOff: String \n open var vAlign: String \n open var width:
String \n \n companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
 val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to
Kotlin \n
*\npublic external abstract class HTMLTableSectionElement : HTMLElement { \n open val rows:
HTMLCollection \n open var align: String \n open var ch: String \n open var chOff: String \n open var vAlign:
String \n fun insertRow(index: Int = definedExternally): HTMLElement \n fun deleteRow(index: Int) \n \n
 companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin \n
*\npublic external abstract class HTMLTableRowElement : HTMLElement { \n open val rowIndex: Int \n open
val sectionRowIndex: Int \n open val cells: HTMLCollection \n open var align: String \n open var ch: String \n
 open var chOff: String \n open var vAlign: String \n open var bgColor: String \n fun insertCell(index: Int =
definedExternally): HTMLElement \n fun deleteCell(index: Int) \n \n companion object { \n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin \n

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*\npublic external abstract class HTMLTableCellElement : HTMLInputElement {\n open var colSpan: Int\n open var
rowSpan: Int\n open var headers: String\n open val cellIndex: Int\n open var scope: String\n open var abbr:
String\n open var align: String\n open var axis: String\n open var height: String\n open var width: String\n
open var ch: String\n open var chOff: String\n open var noWrap: Boolean\n open var vAlign: String\n open
var bgColor: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\n
*\npublic external abstract class HTMLFormElement : HTMLInputElement {\n open var acceptCharset: String\n open var
action: String\n open var autocomplete: String\n open var enctype: String\n open var encoding: String\n open
var method: String\n open var name: String\n open var noValidate: Boolean\n open var target: String\n open
val elements: HTMLFormControlsCollection\n open val length: Int\n fun submit()\n fun reset()\n fun
checkValidity(): Boolean\n fun reportValidity(): Boolean\n\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(index: Int): Element? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(name:
String): UnionElementOrRadioNodeList? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin\n
*\npublic external abstract class HTMLLabelElement : HTMLInputElement {\n open val form: HTMLFormElement?\n open
var htmlFor: String\n open val control: HTMLInputElement?\n\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n
*\npublic external abstract class HTMLInputElement : HTMLInputElement {\n open var accept: String\n open var alt: String\n
open var autocomplete: String\n open var autofocus: Boolean\n open var defaultChecked: Boolean\n open var
checked: Boolean\n open var dirName: String\n open var disabled: Boolean\n open val form:

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HTMLFormElement? \n open val files: FileList? \n open var formAction: String \n open var formEnctype:
String \n open var formMethod: String \n open var formNoValidate: Boolean \n open var formTarget: String \n
open var height: Int \n open var indeterminate: Boolean \n open var inputMode: String \n open val list:
HTMLElement? \n open var max: String \n open var maxLength: Int \n open var min: String \n open var
minLength: Int \n open var multiple: Boolean \n open var name: String \n open var pattern: String \n open var
placeholder: String \n open var readOnly: Boolean \n open var required: Boolean \n open var size: Int \n open
var src: String \n open var step: String \n open var type: String \n open var defaultValue: String \n open var
value: String \n open var valueAsDate: dynamic \n open var valueAsNumber: Double \n open var width: Int \n
open val willValidate: Boolean \n open val validity: ValidityState \n open val validationMessage: String \n open
val labels: NodeList \n open var selectionStart: Int? \n open var selectionEnd: Int? \n open var
selectionDirection: String? \n open var align: String \n open var useMap: String \n fun stepUp(n: Int =
definedExternally) \n fun stepDown(n: Int = definedExternally) \n fun checkValidity(): Boolean \n fun
reportValidity(): Boolean \n fun setCustomValidity(error: String) \n fun select() \n fun
setRangeText(replacement: String) \n fun setRangeText(replacement: String, start: Int, end: Int, selectionMode:
SelectionMode = definedExternally) \n fun setSelectionRange(start: Int, end: Int, direction: String =
definedExternally) \n \n companion object { \n val ELEMENT_NODE: Short \n val ATTRIBUTE_NODE:
Short \n val TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n val
ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE: Short \n val
PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin \n
*\npublic external abstract class HTMLButtonElement : HTMLElement { \n open var autofocus: Boolean \n
open var disabled: Boolean \n open val form: HTMLFormElement? \n open var formAction: String \n open var
formEnctype: String \n open var formMethod: String \n open var formNoValidate: Boolean \n open var
formTarget: String \n open var name: String \n open var type: String \n open var value: String \n open var
menu: HTMLMenuElement? \n open val willValidate: Boolean \n open val validity: ValidityState \n open val
validationMessage: String \n open val labels: NodeList \n fun checkValidity(): Boolean \n fun reportValidity():
Boolean \n fun setCustomValidity(error: String) \n \n companion object { \n val ELEMENT_NODE: Short \n
val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n
val ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE: Short \n val
PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin \n
*\npublic external abstract class HTMLSelectElement : HTMLElement, ItemArrayLike<Element> { \n open var
autocomplete: String \n open var autofocus: Boolean \n open var disabled: Boolean \n open val form:
HTMLFormElement? \n open var multiple: Boolean \n open var name: String \n open var required: Boolean \n
open var size: Int \n open val type: String \n open val options: HTMLOptionsCollection \n override var length:
Int \n open val selectedOptions: HTMLCollection \n open var selectedIndex: Int \n open var value: String \n

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open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n open
val labels: NodeList\n fun namedItem(name: String): HTMLOptionElement?\n fun add(element:
UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n fun
remove(index: Int)\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun
setCustomValidity(error: String)\n override fun item(index: Int): Element?\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
 }\n\n @kotlin.internal.InlineOnly\n public inline operator fun HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n @kotlin.internal.InlineOnly\n public inline operator fun HTMLSelectElement.set(index: Int,
option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n /**\n * Exposes the JavaScript
[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n
 *\n public external abstract class HTMLDataListElement : HTMLInputElement {\n open val options:
HTMLCollection\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n /**\n * Exposes the JavaScript
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n
 *\n public external abstract class HTMLOptGroupElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n open var disabled: Boolean\n open var label:
String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
 val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n /**\n * Exposes the JavaScript
[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\n
 *\n public external abstract class HTMLOptionElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n open var disabled: Boolean\n open val form:
HTMLFormElement?\n open var label: String\n open var defaultSelected: Boolean\n open var selected:
Boolean\n open var value: String\n open var text: String\n open val index: Int\n\n companion object {\n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:

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Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\n
*\n\npublic external abstract class HTMLTextAreaElement : HTMLInputElement {\n open var autocomplete: String\n
open var autofocus: Boolean\n open var cols: Int\n open var dirName: String\n open var disabled: Boolean\n
open val form: HTMLFormElement?\n open var inputMode: String\n open var maxLength: Int\n open var
minLength: Int\n open var name: String\n open var placeholder: String\n open var readOnly: Boolean\n open
var required: Boolean\n open var rows: Int\n open var wrap: String\n open val type: String\n open var
defaultValue: String\n open var value: String\n open val textLength: Int\n open val willValidate: Boolean\n
open val validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n open var
selectionStart: Int?\n open var selectionEnd: Int?\n open var selectionDirection: String?\n fun checkValidity():
Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n fun select()\n fun
setRangeText(replacement: String)\n fun setRangeText(replacement: String, start: Int, end: Int, selectionMode:
SelectionMode = definedExternally)\n fun setSelectionRange(start: Int, end: Int, direction: String =
definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin\n
*\n\npublic external abstract class HTMLKeygenElement : HTMLInputElement {\n open var autofocus: Boolean\n
open var challenge: String\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var
keytype: String\n open var name: String\n open val type: String\n open val willValidate: Boolean\n open val
validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun checkValidity():
Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin\n
*\n\npublic external abstract class HTMLOutputElement : HTMLInputElement {\n open val htmlFor: DOMTokenList\n
open val form: HTMLFormElement?\n open var name: String\n open val type: String\n open var
defaultValue: String\n open var value: String\n open val willValidate: Boolean\n open val validity:

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ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun checkValidity():
Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\n
*/\npublic external abstract class HTMLProgressElement : HTMLElement {\n open var value: Double\n open
var max: Double\n open val position: Double\n open val labels: NodeList\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n
*/\npublic external abstract class HTMLMeterElement : HTMLElement {\n open var value: Double\n open var min:
Double\n open var max: Double\n open var low: Double\n open var high: Double\n open var optimum:
Double\n open val labels: NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n
*/\npublic external abstract class HTMLFieldSetElement : HTMLElement {\n open var disabled: Boolean\n
open val form: HTMLFormElement?\n open var name: String\n open val type: String\n open val elements:
HTMLCollection\n open val willValidate: Boolean\n open val validity: ValidityState\n open val
validationMessage: String\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun
setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n

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 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\n
*/\npublic external abstract class HTMLLegendElement : HTMLElement {\n open val form:
HTMLFormElement?\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n
 val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
 val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n
*/\npublic external
abstract class ValidityState {\n open val valueMissing: Boolean\n open val typeMismatch: Boolean\n open val
patternMismatch: Boolean\n open val tooLong: Boolean\n open val tooShort: Boolean\n open val
rangeUnderflow: Boolean\n open val rangeOverflow: Boolean\n open val stepMismatch: Boolean\n open val
badInput: Boolean\n open val customError: Boolean\n open val valid: Boolean\n}\n\n/**\n * Exposes the
JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to
Kotlin\n
*/\npublic external abstract class HTMLDetailsElement : HTMLElement {\n open var open: Boolean\n\n companion
object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
HTMLMenuElement : HTMLElement {\n open var type: String\n open var label: String\n open var compact:
Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
 val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
HTMLMenuItemElement : HTMLElement {\n open var type: String\n open var label: String\n open var icon:
String\n open var disabled: Boolean\n open var checked: Boolean\n open var radiogroup: String\n open var
default: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val

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DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external open class
RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n open val
relatedTarget: EventTarget?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
RelatedEventInit : EventInit {\n var relatedTarget: EventTarget? /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun RelatedEventInit(relatedTarget:
EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
RelatedEventInit {\n val o = js("{}")\n o["relatedTarget"] = relatedTarget\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n
*/\n\npublic external abstract class HTMLDialogElement : HTMLInputElement {\n open var open: Boolean\n open var
returnValue: String\n fun show(anchor: UnionElementOrMouseEvent = definedExternally)\n fun
showModal(anchor: UnionElementOrMouseEvent = definedExternally)\n fun close(returnValue: String =
definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin\n
*/\n\npublic external abstract class HTMLScriptElement : HTMLInputElement, HTMLOrSVGScriptElement {\n open var src:
String\n open var type: String\n open var charset: String\n open var async: Boolean\n open var defer:
Boolean\n open var crossOrigin: String?\n open var text: String\n open var nonce: String\n open var event:
String\n open var htmlFor: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin\n
*/\n\npublic external abstract class HTMLTemplateElement : HTMLInputElement {\n open val content:
DocumentFragment\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n

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DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\n */\npublic
external abstract class HTMLSlotElement : HTMLMLElement {\n open var name: String\n fun
assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\npublic external interface
AssignedNodesOptions {\n var flatten: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun AssignedNodesOptions(flatten: Boolean? =
false): AssignedNodesOptions {\n val o = js("{}")\n o["flatten"] = flatten\n return o\n}\n\n/**\n * Exposes
the JavaScript [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to
Kotlin\n */\npublic external abstract class HTMLCanvasElement : HTMLMLElement, CanvasImageSource,
TexImageSource {\n open var width: Int\n open var height: Int\n fun getContext(contextId: String, vararg
arguments: Any?): RenderingContext?\n fun toDataURL(type: String = definedExternally, quality: Any? =
definedExternally): String\n fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality:
Any? = definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\npublic external interface
CanvasRenderingContext2DSettings {\n var alpha: Boolean? /* = true */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\n val o =
js("{}")\n o["alpha"] = alpha\n return o\n}\n\n/**\n * Exposes the JavaScript
[CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to
Kotlin\n */\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform,
CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters,
CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion,
CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\n
 open val canvas: HTMLCanvasElement\n\n public external interface CanvasState {\n fun save()\n fun
restore()\n }\n\n public external interface CanvasTransform {\n fun scale(x: Double, y: Double)\n fun
rotate(angle: Double)\n fun translate(x: Double, y: Double)\n fun transform(a: Double, b: Double, c: Double, d:
Double, e: Double, f: Double)\n fun getTransform(): DOMMatrix\n fun setTransform(a: Double, b: Double, c:

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Double, d: Double, e: Double, f: Double)\n fun setTransform(transform: dynamic = definedExternally)\n fun
resetTransform()\n}\n\npublic external interface CanvasCompositing {\n var globalAlpha: Double\n var
globalCompositeOperation: String\n}\n\npublic external interface CanvasImageSmoothing {\n var
imageSmoothingEnabled: Boolean\n var imageSmoothingQuality: ImageSmoothingQuality\n}\n\npublic external
interface CanvasFillStrokeStyles {\n var strokeStyle: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var fillStyle: dynamic\n get() = definedExternally\n set(value) = definedExternally\n
fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient\n fun
createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient\n
fun createPattern(image: CanvasImageSource, repetition: String): CanvasPattern?\n}\n\npublic external interface
CanvasShadowStyles {\n var shadowOffsetX: Double\n var shadowOffsetY: Double\n var shadowBlur:
Double\n var shadowColor: String\n}\n\npublic external interface CanvasFilters {\n var filter:
String\n}\n\npublic external interface CanvasRect {\n fun clearRect(x: Double, y: Double, w: Double, h:
Double)\n fun fillRect(x: Double, y: Double, w: Double, h: Double)\n fun strokeRect(x: Double, y: Double, w:
Double, h: Double)\n}\n\npublic external interface CanvasDrawPath {\n fun beginPath()\n fun fill(fillRule:
CanvasFillRule = definedExternally)\n fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n
fun stroke()\n fun stroke(path: Path2D)\n fun clip(fillRule: CanvasFillRule = definedExternally)\n fun
clip(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n fun resetClip()\n fun isPointInPath(x:
Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n fun isPointInPath(path: Path2D, x:
Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n fun isPointInStroke(x: Double, y:
Double): Boolean\n fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\n}\n\npublic external
interface CanvasUserInterface {\n fun drawFocusIfNeeded(element: Element)\n fun drawFocusIfNeeded(path:
Path2D, element: Element)\n fun scrollPathIntoView()\n fun scrollPathIntoView(path: Path2D)\n}\n\npublic
external interface CanvasText {\n fun fillText(text: String, x: Double, y: Double, maxWidth: Double =
definedExternally)\n fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n
fun measureText(text: String): TextMetrics\n}\n\npublic external interface CanvasDrawImage {\n fun
drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n fun drawImage(image: CanvasImageSource,
dx: Double, dy: Double, dw: Double, dh: Double)\n fun drawImage(image: CanvasImageSource, sx: Double, sy:
Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)\n}\n\npublic external interface
CanvasHitRegion {\n fun addHitRegion(options: HitRegionOptions = definedExternally)\n fun
removeHitRegion(id: String)\n fun clearHitRegions()\n}\n\npublic external interface CanvasImageData {\n fun
createImageData(sw: Double, sh: Double): ImageData\n fun createImageData(imagedata: ImageData):
ImageData\n fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\n fun
putImageData(imagedata: ImageData, dx: Double, dy: Double)\n fun putImageData(imagedata: ImageData, dx:
Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double)\n}\n\npublic
external interface CanvasPathDrawingStyles {\n var lineWidth: Double\n var lineCap: CanvasLineCap\n var
lineJoin: CanvasLineJoin\n var miterLimit: Double\n var lineDashOffset: Double\n fun setLineDash(segments:
Array<Double>)\n fun getLineDash(): Array<Double>\n}\n\npublic external interface CanvasTextDrawingStyles
{\n var font: String\n var textAlign: CanvasTextAlign\n var textBaseline: CanvasTextBaseline\n var
direction: CanvasDirection\n}\n\npublic external interface CanvasPath {\n fun closePath()\n fun moveTo(x:
Double, y: Double)\n fun lineTo(x: Double, y: Double)\n fun quadraticCurveTo(cpx: Double, cpy: Double, x:
Double, y: Double)\n fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y:
Double)\n fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n fun arcTo(x1: Double,
y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n fun rect(x: Double, y:
Double, w: Double, h: Double)\n fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle:
Double, anticlockwise: Boolean = definedExternally)\n fun ellipse(x: Double, y: Double, radiusX: Double,
radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\n\npublic external

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abstract class CanvasGradient {\n fun addColorStop(offset: Double, color: String)\n}\n\n/**\n * Exposes the
JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\n\npublic
external abstract class CanvasPattern {\n fun setTransform(transform: dynamic = definedExternally)\n}\n\n\n/**\n *
Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n
*/\n\npublic external abstract class TextMetrics {\n open val width: Double\n open val actualBoundingBoxLeft:
Double\n open val actualBoundingBoxRight: Double\n open val fontBoundingBoxAscent: Double\n open val
fontBoundingBoxDescent: Double\n open val actualBoundingBoxAscent: Double\n open val
actualBoundingBoxDescent: Double\n open val emHeightAscent: Double\n open val emHeightDescent:
Double\n open val hangingBaseline: Double\n open val alphabeticBaseline: Double\n open val
ideographicBaseline: Double\n}\n\n\npublic external interface HitRegionOptions {\n var path: Path2D? /* = null
/\n get() = definedExternally\n set(value) = definedExternally\n var fillRule: CanvasFillRule? / =
CanvasFillRule.NONZERO */\n get() = definedExternally\n set(value) = definedExternally\n var id:
String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var parentID: String? /*
= null */\n get() = definedExternally\n set(value) = definedExternally\n var cursor: String? /* = \"inherit\"
/\n get() = definedExternally\n set(value) = definedExternally\n var control: Element? / = null */\n get() =
definedExternally\n set(value) = definedExternally\n var label: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n var role: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
HitRegionOptions(path: Path2D? = null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = \"\",
parentID: String? = null, cursor: String? = \"inherit\", control: Element? = null, label: String? = null, role: String? =
null): HitRegionOptions {\n val o = js(\"({})\")\n o[\"path\"] = path\n o[\"fillRule\"] = fillRule\n o[\"id\"] =
id\n o[\"parentID\"] = parentID\n o[\"cursor\"] = cursor\n o[\"control\"] = control\n o[\"label\"] = label\n
o[\"role\"] = role\n return o\n}\n\n\n/**\n * Exposes the JavaScript
[ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin\n */\n\npublic external open class
ImageData : ImageBitmapSource, TexImageSource {\n constructor(sw: Int, sh: Int)\n constructor(data:
Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n open val width: Int\n open val height: Int\n open
val data: Uint8ClampedArray\n}\n\n\n\n/**\n * Exposes the JavaScript
[Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\n */\n\npublic external open class
Path2D() : CanvasPath {\n constructor(path: Path2D)\n constructor(paths: Array<Path2D>, fillRule:
CanvasFillRule = definedExternally)\n constructor(d: String)\n fun addPath(path: Path2D, transform: dynamic =
definedExternally)\n override fun closePath()\n override fun moveTo(x: Double, y: Double)\n override fun
lineTo(x: Double, y: Double)\n override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n
 override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n
 override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n override fun arcTo(x1:
Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n override fun
rect(x: Double, y: Double, w: Double, h: Double)\n override fun arc(x: Double, y: Double, radius: Double,
startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */) \n override fun ellipse(x:
Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double,
anticlockwise: Boolean /* = definedExternally */) \n}\n\n\n\n/**\n * Exposes the JavaScript
[ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext)
to Kotlin\n */\n\npublic external abstract class ImageBitmapRenderingContext {\n open val canvas:
HTMLCanvasElement\n fun transferFromImageBitmap(bitmap: ImageBitmap?)\n}\n\n\n\npublic external interface
ImageBitmapRenderingContextSettings {\n var alpha: Boolean? /* = true */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n val o
= js(\"({})\")\n o[\"alpha\"] = alpha\n return o\n}\n\n\n\n\n/**\n * Exposes the JavaScript
[CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\n
*/\n\npublic external abstract class CustomElementRegistry {\n fun define(name: String, constructor: () -> dynamic,

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options: ElementDefinitionOptions = definedExternally)\n fun get(name: String): Any?\n fun
whenDefined(name: String): Promise<Unit>\n\n\npublic external interface ElementDefinitionOptions {\n var
extends: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ElementDefinitionOptions(extends: String?
= undefined): ElementDefinitionOptions {\n val o = js("{}")\n o["extends"] = extends\n return
o\n}\n\n\npublic external interface ElementContentEditable {\n var contentEditable: String\n val
isContentEditable: Boolean\n}\n\n\n/**\n * Exposes the JavaScript
[DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\n */\npublic external
abstract class DataTransfer {\n open var dropEffect: String\n open var effectAllowed: String\n open val items:
DataTransferItemList\n open val types: Array<out String>\n open val files: FileList\n fun
setDragImage(image: Element, x: Int, y: Int)\n fun getData(format: String): String\n fun setData(format: String,
data: String)\n fun clearData(format: String = definedExternally)\n}\n\n\n/**\n * Exposes the JavaScript
[DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\n */\npublic
external abstract class DataTransferItemList {\n open val length: Int\n fun add(data: String, type: String):
DataTransferItem?\n fun add(data: File): DataTransferItem?\n fun remove(index: Int)\n fun
clear()\n}\n\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DataTransferItemList.get(index: Int):
DataTransferItem? = asDynamic()[index]\n\n\n/**\n * Exposes the JavaScript
[DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\n */\npublic
external abstract class DataTransferItem {\n open val kind: String\n open val type: String\n fun
getAsString(_callback: ((String) -> Unit)?)\n fun getAsFile(): File?\n}\n\n\n/**\n * Exposes the JavaScript
[DragEvent](https://developer.mozilla.org/en/docs/Web/API/TouchEvent) to Kotlin\n */\npublic external open class
DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n open val
dataTransfer: DataTransfer?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\n\npublic external interface
DragEventInit : MouseEventInit {\n var dataTransfer: DataTransfer? /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n\n@kotlin.internal.InlineOnly\npublic inline fun DragEventInit(dataTransfer:
DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): DragEventInit {\n val o = js("{}")\n o["dataTransfer"] = dataTransfer\n o["screenX"] = screenX\n
o["screenY"] = screenY\n o["clientX"] = clientX\n o["clientY"] = clientY\n o["button"] = button\n
o["buttons"] = buttons\n o["relatedTarget"] = relatedTarget\n o["region"] = region\n o["ctrlKey"] =
ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"] = altKey\n o["metaKey"] = metaKey\n
o["modifierAltGraph"] = modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] =
modifierHyper\n o["modifierNumLock"] = modifierNumLock\n o["modifierScrollLock"] =
modifierScrollLock\n o["modifierSuper"] = modifierSuper\n o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] = view\n o["detail"] = detail\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n\n/**\n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to
Kotlin\n */\npublic external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers,
WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance,
UnionMessagePortOrWindowProxy {\n open val window: Window\n open val self: Window\n open val
document: Document\n open var name: String\n open val location: Location\n open val history: History\n

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open val customElements: CustomElementRegistry\n open val locationbar: BarProp\n open val menubar:
BarProp\n open val personalbar: BarProp\n open val scrollbars: BarProp\n open val statusbar: BarProp\n
open val toolbar: BarProp\n open var status: String\n open val closed: Boolean\n open val frames: Window\n
open val length: Int\n open val top: Window\n open var opener: Any?\n open val parent: Window\n open val
frameElement: Element?\n open val navigator: Navigator\n open val applicationCache: ApplicationCache\n
open val external: External\n open val screen: Screen\n open val innerWidth: Int\n open val innerHeight: Int\n
open val scrollX: Double\n open val pageXOffset: Double\n open val scrollY: Double\n open val
pageYOffset: Double\n open val screenX: Int\n open val screenY: Int\n open val outerWidth: Int\n open val
outerHeight: Int\n open val devicePixelRatio: Double\n fun close()\n fun stop()\n fun focus()\n fun blur()\n
fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally):
Window?\n fun alert()\n fun alert(message: String)\n fun confirm(message: String = definedExternally):
Boolean\n fun prompt(message: String = definedExternally, default: String = definedExternally): String?\n fun
print()\n fun requestAnimationFrame(callback: (Double) -> Unit): Int\n fun cancelAnimationFrame(handle:
Int)\n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n
fun captureEvents()\n fun releaseEvents()\n fun matchMedia(query: String): MediaQueryList\n fun moveTo(x:
Int, y: Int)\n fun moveBy(x: Int, y: Int)\n fun resizeTo(x: Int, y: Int)\n fun resizeBy(x: Int, y: Int)\n fun
scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x: Double, y: Double)\n fun scrollTo(options:
ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n fun scrollBy(options:
ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n fun getComputedStyle(elt:
Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun Window.get(name: String): dynamic = asDynamic()[name]\n\npublic external abstract class
BarProp {\n open val visible: Boolean\n}\n\n/**\n * Exposes the JavaScript
[History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n */\npublic external abstract class
History {\n open val length: Int\n open var scrollRestoration: ScrollRestoration\n open val state: Any?\n fun
go(delta: Int = definedExternally)\n fun back()\n fun forward()\n fun pushState(data: Any?, title: String, url:
String? = definedExternally)\n fun replaceState(data: Any?, title: String, url: String? =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n */\npublic external abstract class
Location {\n open var href: String\n open val origin: String\n open var protocol: String\n open var host:
String\n open var hostname: String\n open var port: String\n open var pathname: String\n open var search:
String\n open var hash: String\n open val ancestorOrigins: Array<out String>\n fun assign(url: String)\n fun
replace(url: String)\n fun reload()\n}\n\n/**\n * Exposes the JavaScript
[PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n */\npublic external
open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n open val
state: Any?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface PopStateEventInit
: EventInit {\n var state: Any? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\n val o
= js("{}")\n o["state"] = state\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n */\npublic
external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) :
Event {\n open val oldURL: String\n open val newURL: String\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface HashChangeEventInit : EventInit {\n var oldURL: String? /* = "" */\n
get() = definedExternally\n set(value) = definedExternally\n var newURL: String? /* = "" */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun

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HashChangeEventInit(oldURL: String? = "", newURL: String? = "", bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): HashChangeEventInit {\n val o = js("{}")\n o["oldURL"] =
oldURL\n o["newURL"] = newURL\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o}\n\n/**\n * Exposes the JavaScript
[PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\n *\npublic
external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) :
Event {\n open val persisted: Boolean\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface PageTransitionEventInit : EventInit {\n var persisted: Boolean? /* = false *\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): PageTransitionEventInit {\n val o = js("{}")\n o["persisted"] = persisted\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o}\n\n/**\n * Exposes the JavaScript
[BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n *\npublic
external open class BeforeUnloadEvent : Event {\n var returnValue: String\n\n companion object {\n val
NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external abstract class ApplicationCache : EventTarget {\n open
val status: Short\n open var onchecking: ((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n
open var onnoupdate: ((Event) -> dynamic)?\n open var ondownloading: ((Event) -> dynamic)?\n open var
onprogress: ((ProgressEvent) -> dynamic)?\n open var onupdateready: ((Event) -> dynamic)?\n open var
oncached: ((Event) -> dynamic)?\n open var onobsolete: ((Event) -> dynamic)?\n fun update()\n fun abort()\n
fun swapCache()\n\n companion object {\n val UNCACHED: Short\n val IDLE: Short\n val
CHECKING: Short\n val DOWNLOADING: Short\n val UPDATEREADY: Short\n val OBSOLETE:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n *\npublic
external interface NavigatorOnLine {\n val onLine: Boolean\n}\n\n/**\n * Exposes the JavaScript
[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n *\npublic external open class
ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\n open val message: String\n
open val filename: String\n open val lineno: Int\n open val colno: Int\n open val error: Any?\n\n companion
object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface ErrorEventInit : EventInit {\n var message:
String? /* = "" *\n get() = definedExternally\n set(value) = definedExternally\n var filename: String? /*
= "" *\n get() = definedExternally\n set(value) = definedExternally\n var lineno: Int? /* = 0 *\n get() =
definedExternally\n set(value) = definedExternally\n var colno: Int? /* = 0 *\n get() =
definedExternally\n set(value) = definedExternally\n var error: Any? /* = null *\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ErrorEventInit(message: String? = "", filename: String? = "", lineno: Int? = 0, colno: Int? = 0, error: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n val o =
js("{}")\n o["message"] = message\n o["filename"] = filename\n o["lineno"] = lineno\n o["colno"] =
colno\n o["error"] = error\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o}\n\n/**\n * Exposes the JavaScript
[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n
*\npublic external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) :
Event {\n open val promise: Promise<Any?>\n open val reason: Any?\n\n companion object {\n val
NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface PromiseRejectionEventInit : EventInit {\n var
promise: Promise<Any?>?\n get() = definedExternally\n set(value) = definedExternally\n var reason:

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Any?
 get() = definedExternally
 set(value) =
definedExternally
}
@kotlin.internal.InlineOnly
public inline fun PromiseRejectionEventInit(promise:
Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): PromiseRejectionEventInit {
 val o = js("{}")
 o["promise"] = promise
 o["reason"] = reason
 o["bubbles"] = bubbles
 o["cancelable"] = cancelable
 o["composed"] =
composed
 return o
}
/** Exposes the JavaScript
[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin
*/
public external interface GlobalEventHandlers {
 var onabort: ((Event) -> dynamic)?
 get() =
definedExternally
 set(value) = definedExternally
 var onblur: ((FocusEvent) -> dynamic)?
 get() =
definedExternally
 set(value) = definedExternally
 var oncancel: ((Event) -> dynamic)?
 get() =
definedExternally
 set(value) = definedExternally
 var oncanplay: ((Event) -> dynamic)?
 get() =
definedExternally
 set(value) = definedExternally
 var oncanplaythrough: ((Event) -> dynamic)?
 get()
= definedExternally
 set(value) = definedExternally
 var onchange: ((Event) -> dynamic)?
 get() =
definedExternally
 set(value) = definedExternally
 var onclick: ((MouseEvent) -> dynamic)?
 get() =
definedExternally
 set(value) = definedExternally
 var onclose: ((Event) -> dynamic)?
 get() =
definedExternally
 set(value) = definedExternally
 var oncontextmenu: ((MouseEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var oncuechange: ((Event) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var ondblclick: ((MouseEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var ondrag: ((DragEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var ondragend: ((DragEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var ondragenter: ((DragEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var ondragexit: ((DragEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var ondragleave: ((DragEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var ondragover: ((DragEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var ondragstart: ((DragEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var ondrop: ((DragEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var ondurationchange: ((Event) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var onemptied: ((Event) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var onended: ((Event) -> dynamic)?
 get() =
definedExternally
 set(value) = definedExternally
 var onerror: ((dynamic, String, Int, Int, Any?) ->
dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var onfocus: ((FocusEvent) ->
dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var oninput: ((InputEvent) ->
dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var oninvalid: ((Event) ->
dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var onkeydown:
((KeyboardEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var
onkeypress: ((KeyboardEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var
onkeyup: ((KeyboardEvent) -> dynamic)?
 get() = definedExternally
 set(value) =
definedExternally
 var onload: ((Event) -> dynamic)?
 get() = definedExternally
 set(value) =
definedExternally
 var onloadeddata: ((Event) -> dynamic)?
 get() = definedExternally
 set(value) =
definedExternally
 var onloadedmetadata: ((Event) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var onloadend: ((Event) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var onloadstart: ((ProgressEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var onmousedown: ((MouseEvent) -> dynamic)?
 get() =
definedExternally
 set(value) = definedExternally
 var onmouseenter: ((MouseEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var onmouseleave: ((MouseEvent) ->
dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var onmousemove:
((MouseEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally
 var
onmouseout: ((MouseEvent) -> dynamic)?
 get() = definedExternally
 set(value) = definedExternally

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var onmouseover: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onmouseup: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onwheel: ((WheelEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onpause: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onplay: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onplaying: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onprogress: ((ProgressEvent) -> dynamic)?\n get() = definedExternally\n
 set(value) = definedExternally\n var onratechange: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onreset: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onresize: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onscroll: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onseeked: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onseeking: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onselect: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onshow: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onstalled: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onsubmit: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onsuspend: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var ontimeupdate: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var ontoggle: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onvolumechange: ((Event) -> dynamic)?\n get() = definedExternally\n
 set(value) = definedExternally\n var onwaiting: ((Event) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var ongotpointercapture: ((PointerEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onlostpointercapture: ((PointerEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var onpointerdown: ((PointerEvent) ->
dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onpointermove:
((PointerEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onpointerup: ((PointerEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
var onpointercancel: ((PointerEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onpointerover: ((PointerEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onpointerout: ((PointerEvent) -> dynamic)?\n get() = definedExternally\n
 set(value) = definedExternally\n var onpointerenter: ((PointerEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onpointerleave: ((PointerEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n\n\n\n**\n * Exposes the JavaScript
[WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n
*\npublic external interface WindowEventHandlers {\n var onafterprint: ((Event) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onbeforeprint: ((Event) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onbeforeunload: ((BeforeUnloadEvent) ->
String)?\n get() = definedExternally\n set(value) = definedExternally\n var onhashchange:
((HashChangeEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onlanguagechange: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
var onmessage: ((MessageEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onoffline: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var ononline: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onpagehide: ((PageTransitionEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onpageshow: ((PageTransitionEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onpopstate: ((PopStateEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var onrejectionhandled: ((Event) -> dynamic)?\n

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 get() = definedExternally\n set(value) = definedExternally\n var onstorage: ((StorageEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
var onunload: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n var oncopy:
((ClipboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var oncut:
((ClipboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onpaste: ((ClipboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n**\n * Exposes the JavaScript
[WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope)
to Kotlin\n *^\npublic external interface WindowOrWorkerGlobalScope {\n val origin: String\n val caches:
CacheStorage\n fun btoa(data: String): String\n fun atob(data: String): String\n fun setTimeout(handler:
dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n fun clearTimeout(handle: Int =
definedExternally)\n fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?):
Int\n fun clearInterval(handle: Int = definedExternally)\n fun createImageBitmap(image: ImageBitmapSource,
options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n fun createImageBitmap(image:
ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally):
Promise<ImageBitmap>\n fun fetch(input: dynamic, init: RequestInit = definedExternally):
Promise<Response>\n}\n\n**\n * Exposes the JavaScript
[Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n *^\npublic external abstract class
Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies,
NavigatorPlugins, NavigatorConcurrentHardware {\n open val clipboard: Clipboard\n open val mediaDevices:
MediaDevices\n open val maxTouchPoints: Int\n open val serviceWorker: ServiceWorkerContainer\n fun
requestMediaKeySystemAccess(keySystem: String, supportedConfigurations:
Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>\n fun getUserMedia(constraints:
MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n fun
vibrate(pattern: dynamic): Boolean\n}\n\n**\n * Exposes the JavaScript
[NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n *^\npublic external interface
NavigatorID {\n val appCodeName: String\n val appName: String\n val appVersion: String\n val platform:
String\n val product: String\n val productSub: String\n val userAgent: String\n val vendor: String\n val
vendorSub: String\n val oscpu: String\n fun taintEnabled(): Boolean\n}\n\n**\n * Exposes the JavaScript
[NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n *^\npublic
external interface NavigatorLanguage {\n val language: String\n val languages: Array<out String>\n}\n\npublic
external interface NavigatorContentUtils {\n fun registerProtocolHandler(scheme: String, url: String, title:
String)\n fun registerContentHandler(mimeType: String, url: String, title: String)\n fun
isProtocolHandlerRegistered(scheme: String, url: String): String\n fun isContentHandlerRegistered(mimeType:
String, url: String): String\n fun unregisterProtocolHandler(scheme: String, url: String)\n fun
unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n val
cookieEnabled: Boolean\n}\n\n**\n * Exposes the JavaScript
[NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n *^\npublic
external interface NavigatorPlugins {\n val plugins: PluginArray\n val mimeTypes: MimeTypeError\n fun
javaEnabled(): Boolean\n}\n\n**\n * Exposes the JavaScript
[PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n *^\npublic external abstract
class PluginArray : ItemArrayLike<Plugin> {\n fun refresh(reload: Boolean = definedExternally)\n override fun
item(index: Int): Plugin?\n fun namedItem(name: String): Plugin?\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun PluginArray.get(index: Int): Plugin? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(name: String):
Plugin? = asDynamic()[name]\n\n**\n * Exposes the JavaScript

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false): MessageEventInit {\n val o = js("{}")\n o["data"] = data\n o["origin"] = origin\n o["lastEventId"] = lastEventId\n o["source"] = source\n o["ports"] = ports\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n *\npublic external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\n open val url: String\n open val withCredentials: Boolean\n open val readyState: Short\n var onopen: ((Event) -> dynamic)?\n var onmessage: ((MessageEvent) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n fun close()\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val CLOSED: Short\n }\n}\n\npublic external interface EventSourceInit {\n var withCredentials: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {\n val o = js("{}")\n o["withCredentials"] = withCredentials\n return o\n}\n\n/**\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin\n *\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {\n open val url: String\n open val readyState: Short\n open val bufferedAmount: Number\n var onopen: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n var onclose: ((Event) -> dynamic)?\n open val extensions: String\n open val protocol: String\n var onmessage: ((MessageEvent) -> dynamic)?\n var binaryType: BinaryType\n fun close(code: Short = definedExternally, reason: String = definedExternally)\n fun send(data: String)\n fun send(data: Blob)\n fun send(data: ArrayBuffer)\n fun send(data: ArrayBufferView)\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val CLOSING: Short\n val CLOSED: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n *\npublic external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\n open val wasClean: Boolean\n open val code: Short\n open val reason: String\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface CloseEventInit : EventInit {\n var wasClean: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var code: Short? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var reason: String? /* = "" */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CloseEventInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CloseEventInit {\n val o = js("{}")\n o["wasClean"] = wasClean\n o["code"] = code\n o["reason"] = reason\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n *\npublic external open class MessageChannel {\n open val port1: MessagePort\n open val port2: MessagePort\n}\n\n/**\n * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n *\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n fun start()\n fun close()\n}\n\n/**\n * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n *\npublic external open class BroadcastChannel(name: String) : EventTarget {\n open val name: String\n var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?)\n fun close()\n}\n\n/**\n * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n *\npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {\n open val self: WorkerGlobalScope\n open val location: WorkerLocation\n open val navigator: WorkerNavigator\n open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n open var onlanguagechange: ((Event) -> dynamic)?\n open var onoffline: ((Event) -> dynamic)?\n open var ononline: ((Event) -> dynamic)?\n open var onrejectionhandled: ((Event) -> dynamic)?\n open var onunhandledrejection:

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((PromiseRejectionEvent) -> dynamic)?\n fun importScripts(vararg urls: String)\n}\n\n/\*\*\n \* Exposes the JavaScript

[DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin\n \*\npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n fun close()\n}\n\n/\*\*\n \* Exposes the JavaScript

[SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin\n \*\npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n open val name: String\n open val applicationCache: ApplicationCache\n open var onconnect: ((Event) -> dynamic)?\n fun close()\n}\n\n/\*\*\n \* Exposes the JavaScript

[AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n \*\npublic external interface AbstractWorker {\n var onerror: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n/\*\*\n \* Exposes the JavaScript

[Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n \*\npublic external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n var onmessage: ((MessageEvent) -> dynamic)?\n override var onerror: ((Event) -> dynamic)?\n fun terminate()\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\npublic external interface WorkerOptions {\n var type: WorkerType? /\* = WorkerType.CLASSIC \*/\n get() = definedExternally\n set(value) = definedExternally\n var credentials: RequestCredentials? /\* = RequestCredentials.OMIT \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\n val o = js("{}")\n o["type"] = type\n o["credentials"] = credentials\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript

[SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n \*\npublic external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n open val port: MessagePort\n override var onerror: ((Event) -> dynamic)?\n}\n\n/\*\*\n \* Exposes the JavaScript

[NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin\n \*\npublic external interface NavigatorConcurrentHardware {\n val hardwareConcurrency: Number\n}\n\n/\*\*\n \* Exposes the JavaScript

[WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n \*\npublic external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {\n open val serviceWorker: ServiceWorkerContainer\n}\n\n/\*\*\n \* Exposes the JavaScript

[WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n \*\npublic external abstract class WorkerLocation {\n open val href: String\n open val origin: String\n open val protocol: String\n open val host: String\n open val hostname: String\n open val port: String\n open val pathname: String\n open val search: String\n open val hash: String\n}\n\n/\*\*\n \* Exposes the JavaScript

[Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n \*\npublic external abstract class Storage {\n open val length: Int\n fun key(index: Int): String?\n fun removeItem(key: String)\n fun clear()\n fun getItem(key: String): String?\n fun setItem(key: String, value: String)\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.get(key: String): String? = asDynamic()[key]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.set(key: String, value: String) { asDynamic()[key] = value }\n\n/\*\*\n \* Exposes the JavaScript

[WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n \*\npublic external interface WindowSessionStorage {\n val sessionStorage: Storage\n}\n\n/\*\*\n \* Exposes the JavaScript

[WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\n \*\npublic external interface WindowLocalStorage {\n val localStorage: Storage\n}\n\n/\*\*\n \* Exposes the JavaScript

[StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n \*\npublic

```

external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {
 open val key: String?
 open val oldValue: String?
 open val newValue: String?
 open val url: String
 open val storageArea: Storage?
 companion object {
 val NONE: Short
 val CAPTURING_PHASE: Short
 val AT_TARGET: Short
 val BUBBLING_PHASE: Short
 }
}
public external interface StorageEventInit : EventInit {
 var key: String? /* = null */
 get() = definedExternally
 set(value) = definedExternally
 var oldValue: String? /* = null */
 get() = definedExternally
 set(value) = definedExternally
 var newValue: String? /* = null */
 get() = definedExternally
 set(value) = definedExternally
 var url: String? /* = "" */
 get() = definedExternally
 set(value) = definedExternally
 var storageArea: Storage? /* = null */
 get() = definedExternally
 set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun StorageEventInit(key: String? = null, oldValue: String? = null, newValue: String? = null, url: String? = "", storageArea: Storage? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {
 val o = js("{}")
 o["key"] = key
 o["oldValue"] = oldValue
 o["newValue"] = newValue
 o["url"] = url
 o["storageArea"] = storageArea
 o["bubbles"] = bubbles
 o["cancelable"] = cancelable
 o["composed"] = composed
 return o
}
public external abstract class HTMLAppletElement : HTMLElement {
 open var align: String
 open var alt: String
 open var archive: String
 open var code: String
 open var codeBase: String
 open var height: String
 open var hspace: Int
 open var name: String
 open var _object: String
 open var vspace: Int
 open var width: String
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}
/** Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin */
public external abstract class HTMLMarqueeElement : HTMLElement {
 open var behavior: String
 open var bgColor: String
 open var direction: String
 open var height: String
 open var hspace: Int
 open var loop: Int
 open var scrollAmount: Int
 open var scrollDelay: Int
 open var trueSpeed: Boolean
 open var vspace: Int
 open var width: String
 open var onbounce: ((Event) -> dynamic)?
 open var onfinish: ((Event) -> dynamic)?
 open var onstart: ((Event) -> dynamic)?
 fun start()
 fun stop()
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}
/** Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin */
public external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {
 open var cols: String
 open var rows: String
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}

```

```

DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
HTMLFrameElement : HTMLElement {\n open var name: String\n open var scrolling: String\n open var src:
String\n open var frameBorder: String\n open var longDesc: String\n open var noResize: Boolean\n open val
contentDocument: Document?\n open val contentWindow: Window?\n open var marginHeight: String\n open
var marginWidth: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
HTMLDirectoryElement : HTMLElement {\n open var compact: Boolean\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin\n *\n\npublic
external abstract class HTMLFontElement : HTMLElement {\n open var color: String\n open var face: String\n
open var size: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface External
{\n fun AddSearchProvider()\n fun IsSearchProviderInstalled()\n}\n\npublic external interface EventInit {\n
var bubbles: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n
var cancelable: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n
var composed: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n val o = js("{}")\n o["bubbles"] =
bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the

```

JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n \*^public external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\n open val detail: Any?\n fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail: Any?)\n\n companion object {\n val NONE: Short\n val CAPTURING\_PHASE: Short\n val AT\_TARGET: Short\n val BUBBLING\_PHASE: Short\n }\n\n public external interface CustomEventInit : EventInit {\n var detail: Any? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n @kotlin.internal.InlineOnly\n public inline fun CustomEventInit(detail: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\n val o = js("{}")\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n public external interface EventListenerOptions {\n var capture: Boolean? /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n @kotlin.internal.InlineOnly\n public inline fun EventListenerOptions(capture: Boolean? = false): EventListenerOptions {\n val o = js("{}")\n o["capture"] = capture\n return o\n}\n\n public external interface AddEventListenerOptions : EventListenerOptions {\n var passive: Boolean? /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n var once: Boolean? /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n @kotlin.internal.InlineOnly\n public inline fun AddEventListenerOptions(passive: Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\n val o = js("{}")\n o["passive"] = passive\n o["once"] = once\n o["capture"] = capture\n return o\n}\n\n public external interface NonElementParentNode {\n fun getElementById(elementId: String): Element?\n}\n\n /\*\*\n \* Exposes the JavaScript [DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n \*^public external interface DocumentOrShadowRoot {\n val fullscreenElement: Element?\n get() = definedExternally\n}\n\n /\*\*\n \* Exposes the JavaScript [ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n \*^public external interface ParentNode {\n val children: HTMLCollection\n val firstElementChild: Element?\n get() = definedExternally\n val lastElementChild: Element?\n get() = definedExternally\n val childElementCount: Int\n fun prepend(vararg nodes: dynamic)\n fun append(vararg nodes: dynamic)\n fun querySelector(selectors: String): Element?\n fun querySelectorAll(selectors: String): NodeList\n}\n\n /\*\*\n \* Exposes the JavaScript [NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to Kotlin\n \*^public external interface NonDocumentTypeChildNode {\n val previousElementSibling: Element?\n get() = definedExternally\n val nextElementSibling: Element?\n get() = definedExternally\n}\n\n /\*\*\n \* Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n \*^public external interface ChildNode {\n fun before(vararg nodes: dynamic)\n fun after(vararg nodes: dynamic)\n fun replaceWith(vararg nodes: dynamic)\n fun remove()\n}\n\n /\*\*\n \* Exposes the JavaScript [Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n \*^public external interface Slotable {\n val assignedSlot: HTMLSlotElement?\n get() = definedExternally\n}\n\n /\*\*\n \* Exposes the JavaScript [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n \*^public external abstract class NodeList : ItemArrayLike<Node> {\n override fun item(index: Int): Node?\n}\n\n @kotlin.internal.InlineOnly\n public inline operator fun NodeList.get(index: Int): Node? = asDynamic()[index]\n\n /\*\*\n \* Exposes the JavaScript [HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n \*^public external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {\n override fun item(index: Int): Element?\n fun namedItem(name: String): Element?\n}\n\n @kotlin.internal.InlineOnly\n public inline operator fun HTMLCollection.get(index: Int): Element? = asDynamic()[index]\n\n @kotlin.internal.InlineOnly\n public inline operator fun HTMLCollection.get(name: String): Element? = asDynamic()[name]\n\n /\*\*\n \* Exposes the JavaScript [MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin\n \*^public external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {\n fun

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observe(target: Node, options: MutationObserverInit = definedExternally)\n fun disconnect()\n fun
takeRecords(): Array<MutationRecord>\n}\n\n/**\n * Exposes the JavaScript
[MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\n
/\npublic external interface MutationObserverInit {\n var childList: Boolean? / = false */\n get() =
definedExternally\n set(value) = definedExternally\n var attributes: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var characterData: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var subtree: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var attributeOldValue: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var characterDataOldValue: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var attributeFilter: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? =
undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? =
undefined, attributeFilter: Array<String>? = undefined): MutationObserverInit {\n val o = js("{}")\n
o["childList"] = childList\n o["attributes"] = attributes\n o["characterData"] = characterData\n
o["subtree"] = subtree\n o["attributeOldValue"] = attributeOldValue\n o["characterDataOldValue"] =
characterDataOldValue\n o["attributeFilter"] = attributeFilter\n return o}\n\n/**\n * Exposes the JavaScript
[MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin\n
*/\npublic external
abstract class MutationRecord {\n open val type: String\n open val target: Node\n open val addedNodes:
NodeList\n open val removedNodes: NodeList\n open val previousSibling: Node?\n open val nextSibling:
Node?\n open val attributeName: String?\n open val attributeNamespace: String?\n open val oldValue:
String?\n}\n\n/**\n * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to
Kotlin\n
*/\npublic external abstract class Node : EventTarget {\n open val nodeType: Short\n open val
nodeName: String\n open val baseURI: String\n open val isConnected: Boolean\n open val ownerDocument:
Document?\n open val parentNode: Node?\n open val parentElement: Element?\n open val childNodes:
NodeList\n open val firstChild: Node?\n open val lastChild: Node?\n open val previousSibling: Node?\n
open val nextSibling: Node?\n open var nodeValue: String?\n open var textContent: String?\n fun
getRootNode(options: GetRootNodeOptions = definedExternally): Node\n fun hasChildNodes(): Boolean\n fun
normalize()\n fun cloneNode(deep: Boolean = definedExternally): Node\n fun isEqualNode(otherNode: Node?):
Boolean\n fun isSameNode(otherNode: Node?): Boolean\n fun compareDocumentPosition(other: Node): Short\n
fun contains(other: Node?): Boolean\n fun lookupPrefix(namespace: String?): String?\n fun
lookupNamespaceURI(prefix: String?): String?\n fun isDefaultNamespace(namespace: String?): Boolean\n fun
insertBefore(node: Node, child: Node?): Node\n fun appendChild(node: Node): Node\n fun replaceChild(node:
Node, child: Node): Node\n fun removeChild(child: Node): Node\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
GetRootNodeOptions {\n var composed: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun GetRootNodeOptions(composed: Boolean?
= false): GetRootNodeOptions {\n val o = js("{}")\n o["composed"] = composed\n return o}\n\n/**\n *
Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin\n
*/\npublic external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers,

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NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {\n open val implementation:  
DOMImplementation\n open val URL: String\n open val documentURI: String\n open val origin: String\n open val compatMode: String\n open val characterSet: String\n open val charset: String\n open val  
inputEncoding: String\n open val contentType: String\n open val doctype: DocumentType?\n open val  
documentElement: Element?\n open val location: Location?\n var domain: String\n open val referrer: String\n var cookie: String\n open val lastModified: String\n open val readyState: DocumentReadyState\n var title:  
String\n var dir: String\n var body: HTMLElement?\n open val head: HTMLHeadElement?\n open val  
images: HTMLCollection\n open val embeds: HTMLCollection\n open val plugins: HTMLCollection\n open  
val links: HTMLCollection\n open val forms: HTMLCollection\n open val scripts: HTMLCollection\n open  
val currentScript: HTMLScriptElement?\n open val defaultView: Window?\n open val activeElement:  
Element?\n var designMode: String\n var onreadystatechange: ((Event) -> dynamic)?\n var fgColor: String\n var linkColor: String\n var vlinkColor: String\n var alinkColor: String\n var bgColor: String\n open val  
anchors: HTMLCollection\n open val applets: HTMLCollection\n open val all: HTMLAllCollection\n open  
val scrollingElement: Element?\n open val styleSheets: StyleSheetList\n open val rootElement:  
SVGGSVGElement?\n open val fullscreenEnabled: Boolean\n open val fullscreen: Boolean\n var  
onfullscreenchange: ((Event) -> dynamic)?\n var onfullscreenerror: ((Event) -> dynamic)?\n override var  
onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel:  
((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough:  
((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) ->  
dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) ->  
dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) ->  
dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) ->  
dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) ->  
dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) ->  
dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) ->  
dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) ->  
dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int,  
Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -  
> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) ->  
dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup:  
((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata:  
((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend:  
((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown:  
((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var  
onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n override var  
onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) ->  
dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) ->  
dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n override var  
onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n override var  
onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var  
onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked:  
((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) ->  
dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n override var  
onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var  
ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var  
onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var  
ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) ->  
dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove:



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(PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var
onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) ->
dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy:
((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste:
((ClipboardEvent) -> dynamic)?\n override val fullscreenElement: Element?\n override val children:
HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n
override val childElementCount: Int\n fun getElementsByTagName(qualifiedName: String): HTMLCollection\n
fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n fun
getElementsByTagName(className: String): HTMLCollection\n fun createElement(localName: String,
options: ElementCreationOptions = definedExternally): Element\n fun createElementNS(namespace: String?,
qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n fun
createDocumentFragment(): DocumentFragment\n fun createTextNode(data: String): Text\n fun
createCDATASection(data: String): CDATASection\n fun createComment(data: String): Comment\n fun
createProcessingInstruction(target: String, data: String): ProcessingInstruction\n fun importNode(node: Node,
deep: Boolean = definedExternally): Node\n fun adoptNode(node: Node): Node\n fun
createAttribute(localName: String): Attr\n fun createAttributeNS(namespace: String?, qualifiedName: String):
Attr\n fun createEvent(`interface`: String): Event\n fun createRange(): Range\n fun createNodeIterator(root:
Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n fun
createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? =
definedExternally): NodeIterator\n fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter:
NodeFilter? = definedExternally): TreeWalker\n fun createTreeWalker(root: Node, whatToShow: Int =
definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n fun
getElementsByTagName(elementName: String): NodeList\n fun open(type: String = definedExternally, replace:
String = definedExternally): Document\n fun open(url: String, name: String, features: String): Window\n fun
close()\n fun write(vararg text: String)\n fun writeln(vararg text: String)\n fun hasFocus(): Boolean\n fun
execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally):
Boolean\n fun queryCommandEnabled(commandId: String): Boolean\n fun
queryCommandIndeterm(commandId: String): Boolean\n fun queryCommandState(commandId: String):
Boolean\n fun queryCommandSupported(commandId: String): Boolean\n fun
queryCommandValue(commandId: String): String\n fun clear()\n fun captureEvents()\n fun releaseEvents()\n
fun elementFromPoint(x: Double, y: Double): Element?\n fun elementsFromPoint(x: Double, y: Double):
Array<Element>\n fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n fun createTouch(view:
Window, target: EventTarget, identifier: Int, pageX: Int, pageY: Int, screenX: Int, screenY: Int): Touch\n fun
createTouchList(vararg touches: Touch): TouchList\n fun exitFullscreen(): Promise<Unit>\n override fun
getElementById(elementId: String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun
append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun
querySelectorAll(selectors: String): NodeList\n override fun getBoxQuads(options: BoxQuadOptions /* =
definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun
convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

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DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Document.get(name: String): dynamic =
asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n *\npublic external
open class XMLDocument : Document {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
ElementCreationOptions {\n var `is`: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ElementCreationOptions(`is`: String? =
undefined): ElementCreationOptions {\n val o = js("\({})")\n o["is"] = `is`\n return o\n}\n\n/**\n * Exposes
the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to
Kotlin\n *\npublic external abstract class DOMImplementation {\n fun createDocumentType(qualifiedName:
String, publicId: String, systemId: String): DocumentType\n fun createDocument(namespace: String?,
qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument\n fun
createHTMLDocument(title: String = definedExternally): Document\n fun hasFeature(): Boolean\n}\n\n/**\n *
Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to
Kotlin\n *\npublic external abstract class DocumentType : Node, ChildNode {\n open val name: String\n open
val publicId: String\n open val systemId: String\n\n companion object {\n val ELEMENT_NODE: Short\n
 val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
 val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin\n *\npublic
external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n override val children:
HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n
 override val childElementCount: Int\n override fun getElementById(elementId: String): Element?\n override fun
prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun
querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

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DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin \n * \n public external open
class ShadowRoot : DocumentFragment, DocumentOrShadowRoot { \n open val mode: ShadowRootMode \n
 open val host: Element \n override val fullscreenElement: Element? \n \n companion object { \n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin \n * \n public external abstract class
Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
UnionElementOrProcessingInstruction { \n open val namespaceURI: String? \n open val prefix: String? \n open
val localName: String \n open val tagName: String \n open var id: String \n open var className: String \n open
val classList: DOMTokenList \n open var slot: String \n open val attributes: NamedNodeMap \n open val
shadowRoot: ShadowRoot? \n open var scrollTop: Double \n open var scrollLeft: Double \n open val
scrollWidth: Int \n open val scrollHeight: Int \n open val clientTop: Int \n open val clientLeft: Int \n open val
clientWidth: Int \n open val clientHeight: Int \n open var innerHTML: String \n open var outerHTML: String \n
 fun hasAttributes(): Boolean \n fun getAttributeNames(): Array<String> \n fun getAttribute(qualifiedName:
String): String? \n fun getAttributeNS(namespace: String?, localName: String): String? \n fun
setAttribute(qualifiedName: String, value: String) \n fun setAttributeNS(namespace: String?, qualifiedName:
String, value: String) \n fun removeAttribute(qualifiedName: String) \n fun removeAttributeNS(namespace:
String?, localName: String) \n fun hasAttribute(qualifiedName: String): Boolean \n fun
hasAttributeNS(namespace: String?, localName: String): Boolean \n fun getAttributeNode(qualifiedName: String):
Attr? \n fun getAttributeNodeNS(namespace: String?, localName: String): Attr? \n fun setAttributeNode(attr:
Attr): Attr? \n fun setAttributeNodeNS(attr: Attr): Attr? \n fun removeAttributeNode(attr: Attr): Attr \n fun
attachShadow(init: ShadowRootInit): ShadowRoot \n fun closest(selectors: String): Element? \n fun
matches(selectors: String): Boolean \n fun webkitMatchesSelector(selectors: String): Boolean \n fun
getElementsByTagName(qualifiedName: String): HTMLCollection \n fun
getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection \n fun
getElementsByClassName(classNames: String): HTMLCollection \n fun insertAdjacentElement(where: String,
element: Element): Element? \n fun insertAdjacentText(where: String, data: String) \n fun getClientRects():
Array<DOMRect> \n fun getBoundingClientRect(): DOMRect \n fun scrollIntoView() \n fun
scrollIntoView(arg: dynamic) \n fun scroll(options: ScrollToOptions = definedExternally) \n fun scroll(x: Double,
y: Double) \n fun scrollTo(options: ScrollToOptions = definedExternally) \n fun scrollTo(x: Double, y: Double) \n
 fun scrollBy(options: ScrollToOptions = definedExternally) \n fun scrollBy(x: Double, y: Double) \n fun
insertAdjacentHTML(position: String, text: String) \n fun setPointerCapture(pointerId: Int) \n fun
releasePointerCapture(pointerId: Int) \n fun hasPointerCapture(pointerId: Int): Boolean \n fun requestFullscreen():
Promise<Unit> \n \n companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val

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PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
ShadowRootInit {\n var mode: ShadowRootMode?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ShadowRootInit(mode:
ShadowRootMode?): ShadowRootInit {\n val o = js(\"({})\")\n o[\"mode\"] = mode\n return o\n}\n\n/**\n *
Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to
Kotlin\n\n */\n\npublic external abstract class NamedNodeMap : ItemArrayLike<Attr> {\n fun
getNamedItemNS(namespace: String?, localName: String): Attr?\n fun setNamedItem(attr: Attr): Attr?\n fun
setNamedItemNS(attr: Attr): Attr?\n fun removeNamedItem(qualifiedName: String): Attr\n fun
removeNamedItemNS(namespace: String?, localName: String): Attr\n override fun item(index: Int): Attr?\n fun
getNamedItem(qualifiedName: String): Attr?\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
NamedNodeMap.get(index: Int): Attr? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline operator
fun NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n/**\n * Exposes the
JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\n\n */\n\npublic external abstract class
Attr : Node {\n open val namespaceURI: String?\n open val prefix: String?\n open val localName: String\n open
val name: String\n open var value: String\n open val ownerElement: Element?\n open val specified:
Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n\n */\n\npublic external
abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n open var data: String\n open
val length: Int\n fun substringData(offset: Int, count: Int): String\n fun appendData(data: String)\n fun
insertData(offset: Int, data: String)\n fun deleteData(offset: Int, count: Int)\n fun replaceData(offset: Int, count:
Int, data: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\n\n */\n\npublic external open class Text(data:
String = definedExternally) : CharacterData, Slotable, GeometryUtils {\n open val wholeText: String\n override
val assignedSlot: HTMLSlotElement?\n override val previousElementSibling: Element?\n override val
nextElementSibling: Element?\n fun splitText(offset: Int): Text\n override fun getBoxQuads(options:

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BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad:
dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override
fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n override fun before(vararg nodes:
dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n
override fun remove()\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\n *\npublic external
open class CDATASection : Text {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin\n
*\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle,
UnionElementOrProcessingInstruction {\n open val target: String\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin\n *\npublic external open class
Comment(data: String = definedExternally) : CharacterData {\n override val previousElementSibling: Element?\n
override val nextElementSibling: Element?\n override fun before(vararg nodes: dynamic)\n override fun
after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

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DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin \n * \n public external open class Range { \n
 open val startContainer: Node \n open val startOffset: Int \n open val endContainer: Node \n open val
endOffset: Int \n open val collapsed: Boolean \n open val commonAncestorContainer: Node \n fun setStart(node:
Node, offset: Int) \n fun setEnd(node: Node, offset: Int) \n fun setStartBefore(node: Node) \n fun
setStartAfter(node: Node) \n fun setEndBefore(node: Node) \n fun setEndAfter(node: Node) \n fun
collapse(toStart: Boolean = definedExternally) \n fun selectNode(node: Node) \n fun selectNodeContents(node:
Node) \n fun compareBoundaryPoints(how: Short, sourceRange: Range): Short \n fun deleteContents() \n fun
extractContents(): DocumentFragment \n fun cloneContents(): DocumentFragment \n fun insertNode(node:
Node) \n fun surroundContents(newParent: Node) \n fun cloneRange(): Range \n fun detach() \n fun
isPointInRange(node: Node, offset: Int): Boolean \n fun comparePoint(node: Node, offset: Int): Short \n fun
intersectsNode(node: Node): Boolean \n fun getClientRects(): Array<DOMRect> \n fun
getBoundingClientRect(): DOMRect \n fun createContextualFragment(fragment: String): DocumentFragment \n \n
companion object { \n val START_TO_START: Short \n val START_TO_END: Short \n val
END_TO_END: Short \n val END_TO_START: Short \n } \n} \n \n /** \n * Exposes the JavaScript
[NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin \n * \n public external abstract
class NodeIterator { \n open val root: Node \n open val referenceNode: Node \n open val
pointerBeforeReferenceNode: Boolean \n open val whatToShow: Int \n open val filter: NodeFilter? \n fun
nextNode(): Node? \n fun previousNode(): Node? \n fun detach() \n} \n \n /** \n * Exposes the JavaScript
[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin \n * \n public external abstract
class TreeWalker { \n open val root: Node \n open val whatToShow: Int \n open val filter: NodeFilter? \n open
var currentNode: Node \n fun parentNode(): Node? \n fun firstChild(): Node? \n fun lastChild(): Node? \n fun
previousSibling(): Node? \n fun nextSibling(): Node? \n fun previousNode(): Node? \n fun nextNode():
Node? \n} \n \n /** \n * Exposes the JavaScript
[NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin \n
* \n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external interface NodeFilter { \n
 fun acceptNode(node: Node): Short \n \n companion object { \n val FILTER_ACCEPT: Short \n val
FILTER_REJECT: Short \n val FILTER_SKIP: Short \n val SHOW_ALL: Int \n val
SHOW_ELEMENT: Int \n val SHOW_ATTRIBUTE: Int \n val SHOW_TEXT: Int \n val
SHOW_CDATA_SECTION: Int \n val SHOW_ENTITY_REFERENCE: Int \n val SHOW_ENTITY: Int \n val
SHOW_PROCESSING_INSTRUCTION: Int \n val SHOW_COMMENT: Int \n val
SHOW_DOCUMENT: Int \n val SHOW_DOCUMENT_TYPE: Int \n val
SHOW_DOCUMENT_FRAGMENT: Int \n val SHOW_NOTATION: Int \n } \n} \n \n /** \n * Exposes the
JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin \n * \n public
external abstract class DOMTokenList : ItemArrayLike<String> { \n open var value: String \n fun contains(token:
String): Boolean \n fun add(vararg tokens: String) \n fun remove(vararg tokens: String) \n fun toggle(token:
String, force: Boolean = definedExternally): Boolean \n fun replace(token: String, newToken: String) \n fun
supports(token: String): Boolean \n override fun item(index: Int):
String? \n} \n \n @kotlin.internal.InlineOnly \n public inline operator fun DOMTokenList.get(index: Int): String? =
asDynamic()[index] \n \n /** \n * Exposes the JavaScript
[DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin \n * \n public
external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) { \n open val x: Double \n
 open val y: Double \n open val z: Double \n open val w: Double \n fun matrixTransform(matrix:
DOMMatrixReadOnly): DOMPoint \n} \n \n /** \n * Exposes the JavaScript
[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin \n * \n public external open class

```

```

DOMPoint : DOMPointReadOnly {
 constructor(point: DOMPointInit)
 constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)
 override var x: Double
 override var y: Double
 override var z: Double
 override var w: Double
}
Exposes the JavaScript

[DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin
public external interface DOMPointInit {
 var x: Double? /* = 0.0 */
 get() = definedExternally
 set(value) = definedExternally
 var y: Double? /* = 0.0 */
 get() = definedExternally
 set(value) = definedExternally
 var z: Double? /* = 0.0 */
 get() = definedExternally
 set(value) = definedExternally
 var w: Double? /* = 1.0 */
 get() = definedExternally
 set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun DOMPointInit(x: Double? = 0.0, y: Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {
 val o = js("{}")
 o["x"] = x
 o["y"] = y
 o["z"] = z
 o["w"] = w
 return o
}
Exposes the JavaScript

[DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin
public external open class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally) : DOMRectReadOnly {
 override var x: Double
 override var y: Double
 override var width: Double
 override var height: Double
}
Exposes the JavaScript

[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin
public external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {
 open val x: Double
 open val y: Double
 open val width: Double
 open val height: Double
 open val top: Double
 open val right: Double
 open val bottom: Double
 open val left: Double
}
public external interface DOMRectInit {
 var x: Double? /* = 0.0 */
 get() = definedExternally
 set(value) = definedExternally
 var y: Double? /* = 0.0 */
 get() = definedExternally
 set(value) = definedExternally
 var width: Double? /* = 0.0 */
 get() = definedExternally
 set(value) = definedExternally
 var height: Double? /* = 0.0 */
 get() = definedExternally
 set(value) = definedExternally
}
@kotlin.internal.InlineOnly
public inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {
 val o = js("{}")
 o["x"] = x
 o["y"] = y
 o["width"] = width
 o["height"] = height
 return o
}
public external interface DOMRectList : ItemArrayLike<DOMRect> {
 override fun item(index: Int): DOMRect?
}
@kotlin.internal.InlineOnly
public inline operator fun DOMRectList.get(index: Int): DOMRect? = asDynamic()[index]
Exposes the JavaScript

[DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin
public external open class DOMQuad {
 constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)
 constructor(rect: DOMRectInit)
 open val p1: DOMPoint
 open val p2: DOMPoint
 open val p3: DOMPoint
 open val p4: DOMPoint
 open val bounds: DOMRectReadOnly
}
Exposes the JavaScript

[DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin
public external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {
 open val a: Double
 open val b: Double
 open val c: Double
 open val d: Double
 open val e: Double
 open val f: Double
 open val m11: Double
 open val m12: Double
 open val m13: Double
 open val m14: Double
 open val m21: Double
 open val m22: Double
 open val m23: Double
 open val m24: Double
 open val m31: Double
 open val m32: Double
 open val m33: Double
 open val m34: Double
 open val m41: Double
 open val m42: Double
 open val m43: Double
 open val m44: Double
 open val is2D: Boolean
 open val isIdentity: Boolean
 fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix
 fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix
 fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
 fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
 fun rotate(angle: Double, originX:

```

```

Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVector(x:
Double, y: Double): DOMMatrix\n fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double):
DOMMatrix\n fun skewX(sx: Double): DOMMatrix\n fun skewY(sy: Double): DOMMatrix\n fun
multiply(other: DOMMatrix): DOMMatrix\n fun flipX(): DOMMatrix\n fun flipY(): DOMMatrix\n fun
inverse(): DOMMatrix\n fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n fun
toFloat32Array(): Float32Array\n fun toFloat64Array(): Float64Array\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n *\npublic external open
class DOMMatrix() : DOMMatrixReadOnly {\n constructor(transformList: String)\n constructor(other:
DOMMatrixReadOnly)\n constructor(array32: Float32Array)\n constructor(array64: Float64Array)\n
constructor(numberSequence: Array<Double>)\n override var a: Double\n override var b: Double\n override
var c: Double\n override var d: Double\n override var e: Double\n override var f: Double\n override var m11:
Double\n override var m12: Double\n override var m13: Double\n override var m14: Double\n override var
m21: Double\n override var m22: Double\n override var m23: Double\n override var m24: Double\n override
var m31: Double\n override var m32: Double\n override var m33: Double\n override var m34: Double\n
override var m41: Double\n override var m42: Double\n override var m43: Double\n override var m44:
Double\n fun multiplySelf(other: DOMMatrix): DOMMatrix\n fun preMultiplySelf(other: DOMMatrix):
DOMMatrix\n fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun
scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n
fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally,
originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double =
definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double =
definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotateSelf(angle: Double, originX:
Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVectorSelf(x:
Double, y: Double): DOMMatrix\n fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double):
DOMMatrix\n fun skewXSelf(sx: Double): DOMMatrix\n fun skewYSelf(sy: Double): DOMMatrix\n fun
invertSelf(): DOMMatrix\n fun setMatrixValue(transformList: String): DOMMatrix\n}\n\npublic external
interface ScrollOptions {\n var behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n val o = js("{}")\n
o["behavior"] = behavior\n return o\n}\n\n/**\n * Exposes the JavaScript
[ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\n *\npublic external
interface ScrollToOptions : ScrollOptions {\n var left: Double?\n get() = definedExternally\n set(value) =
definedExternally\n var top: Double?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? = undefined,
top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n val o =
js("{}")\n o["left"] = left\n o["top"] = top\n o["behavior"] = behavior\n return o\n}\n\n/**\n *
Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to
Kotlin\n *\npublic external abstract class MediaQueryList : EventTarget {\n open val media: String\n open val
matches: Boolean\n open var onchange: ((Event) -> dynamic)?\n fun addListener(listener: EventListener?)\n
fun addListener(listener: ((Event) -> Unit)?)\n fun removeListener(listener: EventListener?)\n fun
removeListener(listener: ((Event) -> Unit)?)\n}\n\n/**\n * Exposes the JavaScript
[MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n *\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit =
definedExternally) : Event {\n open val media: String\n open val matches: Boolean\n\n companion object {\n
val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaQueryListEventInit : EventInit {\n var
media: String? /* = "" */\n get() = definedExternally\n set(value) = definedExternally\n var matches:
Boolean? /* = false */\n get() = definedExternally\n set(value) =

```





```

((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough:
((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) ->
dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) ->
dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) ->
dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) ->
dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) ->
dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) ->
dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) ->
dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -
> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup:
((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata:
((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend:
((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown:
((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var
onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n
override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) ->
dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) ->
dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var
onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked:
((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) ->
dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var
ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var
onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove:
((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var
onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) ->
dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy:
((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste:
((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable:
Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val
firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n
 override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override val
assignedSlot: HTMLSlotElement?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg
nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun
querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes: dynamic)\n override fun
after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun

```

```

convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }
}\n\npublic external open class
Audio(src: String = definedExternally) : HTMLAudioElement {\n override var onabort: ((Event) -> dynamic)?\n
override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) -> dynamic)?\n override var
oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var
onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) -> dynamic)?\n override var onclose:
((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\n override var oncuechange:
((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) -> dynamic)?\n override var ondrag:
((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) -> dynamic)?\n override var ondragenter:
((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) -> dynamic)?\n override var ondragleave:
((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) -> dynamic)?\n override var ondragstart:
((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) -> dynamic)?\n override var ondurationchange:
((Event) -> dynamic)?\n override var onemptied: ((Event) -> dynamic)?\n override var onended: ((Event) ->
dynamic)?\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus:
((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -> dynamic)?\n override var oninvalid:
((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\n override var onkeypress:
((KeyboardEvent) -> dynamic)?\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\n override var onload:
((Event) -> dynamic)?\n override var onloadeddata: ((Event) -> dynamic)?\n override var onloadedmetadata:
((Event) -> dynamic)?\n override var onloadend: ((Event) -> dynamic)?\n override var onloadstart:
((ProgressEvent) -> dynamic)?\n override var onmousedown: ((MouseEvent) -> dynamic)?\n override var
onmouseenter: ((MouseEvent) -> dynamic)?\n override var onmouseleave: ((MouseEvent) -> dynamic)?\n
override var onmousemove: ((MouseEvent) -> dynamic)?\n override var onmouseout: ((MouseEvent) ->
dynamic)?\n override var onmouseover: ((MouseEvent) -> dynamic)?\n override var onmouseup: ((MouseEvent)
-> dynamic)?\n override var onwheel: ((WheelEvent) -> dynamic)?\n override var onpause: ((Event) ->
dynamic)?\n override var onplay: ((Event) -> dynamic)?\n override var onplaying: ((Event) -> dynamic)?\n
override var onprogress: ((ProgressEvent) -> dynamic)?\n override var onratechange: ((Event) -> dynamic)?\n
override var onreset: ((Event) -> dynamic)?\n override var onresize: ((Event) -> dynamic)?\n override var
onscroll: ((Event) -> dynamic)?\n override var onseeked: ((Event) -> dynamic)?\n override var onseeking:
((Event) -> dynamic)?\n override var onselect: ((Event) -> dynamic)?\n override var onshow: ((Event) ->
dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n override var onsubmit: ((Event) -> dynamic)?\n
override var onsuspend: ((Event) -> dynamic)?\n override var ontimeupdate: ((Event) -> dynamic)?\n override
var ontoggle: ((Event) -> dynamic)?\n override var onvolumechange: ((Event) -> dynamic)?\n override var
onwaiting: ((Event) -> dynamic)?\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n override
var onlostpointercapture: ((PointerEvent) -> dynamic)?\n override var onpointerdown: ((PointerEvent) ->
dynamic)?\n override var onpointermove: ((PointerEvent) -> dynamic)?\n override var onpointerup:
((PointerEvent) -> dynamic)?\n override var onpointercancel: ((PointerEvent) -> dynamic)?\n override var
onpointerover: ((PointerEvent) -> dynamic)?\n override var onpointerout: ((PointerEvent) -> dynamic)?\n
override var onpointerenter: ((PointerEvent) -> dynamic)?\n override var onpointerleave: ((PointerEvent) ->
dynamic)?\n override var oncopy: ((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) ->

```

```

dynamic)?\n override var onpaste: ((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable: Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override val assignedSlot: HTMLSlotElement?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes: dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val NETWORK_EMPTY: Short\n val NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val HAVE_CURRENT_DATA: Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n */\n\npublic external open class Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean = definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {\n override var onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var onCancel: ((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var onChange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) -> dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) -> dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) -> dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) -> dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) -> dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) -> dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) -> dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata: ((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend: ((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown: ((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n
```

```

override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) ->
dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) ->
dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var
onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked:
((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) ->
dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var
ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var
onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove:
((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var
onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) ->
dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy:
((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste:
((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable:
Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val
firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n
 override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override val
assignedSlot: HTMLSlotElement?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg
nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun
querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes: dynamic)\n override fun
after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n public external interface
UnionElementOrHTMLCollection\n public external interface UnionElementOrRadioNodeList\n public external
interface UnionHTMLOptGroupElementOrHTMLOptionElement\n public external interface
MediaPlayer\n public external interface UnionAudioTrackOrTextTrackOrVideoTrack\n public external
interface UnionElementOrMouseEvent\n public external interface RenderingContext\n public external interface
HTMLOrSVGImageElement : CanvasImageSource\n public external interface CanvasImageSource :
ImageBitmapSource\n public external interface ImageBitmapSource\n public external interface
UnionMessagePortOrWindowProxy\n public external interface HTMLOrSVGScriptElement\n\n/* please, don't

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implement this interface! */\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface DocumentReadyState {\n companion object\n}\n\npublic inline val
DocumentReadyState.Companion.LOADING: DocumentReadyState get() =
"loading".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
"interactive".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
"complete".asDynamic().unsafeCast<DocumentReadyState>()\n\n/* please, don't implement this interface!
*/\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
CanPlayTypeResult {\n companion object\n}\n\npublic inline val CanPlayTypeResult.Companion.EMPTY:
CanPlayTypeResult get() = ""\n\npublic inline val
CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() =
"maybe".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
"probably".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/* please, don't implement this interface!
*/\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface TextTrackMode
{\n companion object\n}\n\npublic inline val TextTrackMode.Companion.DISABLED: TextTrackMode get() =
"disabled".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
"hidden".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
"showing".asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement this interface!
*/\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface TextTrackKind
{\n companion object\n}\n\npublic inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() =
"subtitles".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
"captions".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.DESCRPTIONS: TextTrackKind get() =
"descriptions".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
"chapters".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
"metadata".asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface!
*/\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface SelectionMode
{\n companion object\n}\n\npublic inline val SelectionMode.Companion.SELECT: SelectionMode get() =
"select".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.START:
SelectionMode get() = "start".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.END: SelectionMode get() =
"end".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.PRESERVE:
SelectionMode get() = "preserve".asDynamic().unsafeCast<SelectionMode>()\n\n/* please, don't implement this
interface! */\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
CanvasFillRule {\n companion object\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO:
CanvasFillRule get() = "nonzero".asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val
CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
"evenodd".asDynamic().unsafeCast<CanvasFillRule>()\n\n/* please, don't implement this interface!
*/\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
ImageSmoothingQuality {\n companion object\n}\n\npublic inline val ImageSmoothingQuality.Companion.LOW:
ImageSmoothingQuality get() = "low".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val

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ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
 \"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() =
 \"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface CanvasLineCap
{\n companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() =
 \"butt\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.ROUND:
CanvasLineCap get() = \"round\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val
CanvasLineCap.Companion.SQUARE: CanvasLineCap get() =
 \"square\".asDynamic().unsafeCast<CanvasLineCap>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface CanvasLineJoin
{\n companion object\n}\n\npublic inline val CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() =
 \"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.BEVEL:
CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val
CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
 \"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface CanvasTextAlign
{\n companion object\n}\n\npublic inline val CanvasTextAlign.Companion.START: CanvasTextAlign get() =
 \"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.END:
CanvasTextAlign get() = \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() =
 \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.RIGHT:
CanvasTextAlign get() = \"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
 \"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
CanvasTextBaseline {\n companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
 \"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
 \"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
 \"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
 \"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
 \"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface CanvasDirection
{\n companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR: CanvasDirection get() =
 \"ltr\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.RTL:
CanvasDirection get() = \"rtl\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val
CanvasDirection.Companion.INHERIT: CanvasDirection get() =
 \"inherit\".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface ScrollRestoration
{\n companion object\n}\n\npublic inline val ScrollRestoration.Companion.AUTO: ScrollRestoration get() =
 \"auto\".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic inline val
ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =

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\manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ImageOrientation
{\n companion object\n}\n\npublic inline val ImageOrientation.Companion.NONE: ImageOrientation get() =
\"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val ImageOrientation.Companion.FLIPY:
ImageOrientation get() = \"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/* please, don't implement this
interface! *\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
PremultiplyAlpha {\n companion object\n}\n\npublic inline val PremultiplyAlpha.Companion.NONE:
PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() =
\"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =
\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
ColorSpaceConversion {\n companion object\n}\n\npublic inline val ColorSpaceConversion.Companion.NONE:
ColorSpaceConversion get() = \"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() =
\"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ResizeQuality
{\n companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED: ResizeQuality get() =
\"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.LOW:
ResizeQuality get() = \"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.MEDIUM: ResizeQuality get() =
\"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.HIGH:
ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/* please, don't implement this
interface! *\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
BinaryType {\n companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType get() =
\"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val BinaryType.Companion.ARRAYBUFFER:
BinaryType get() = \"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this
interface! *\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
WorkerType {\n companion object\n}\n\npublic inline val WorkerType.Companion.CLASSIC: WorkerType get()
= \"classic\".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val WorkerType.Companion.MODULE:
WorkerType get() = \"module\".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this
interface! *\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
ShadowRootMode {\n companion object\n}\n\npublic inline val ShadowRootMode.Companion.OPEN:
ShadowRootMode get() = \"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
\"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ScrollBehavior
{\n companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO: ScrollBehavior get() =
\"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.INSTANT:
ScrollBehavior get() = \"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() =
\"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
ScrollLogicalPosition {\n companion object\n}\n\npublic inline val ScrollLogicalPosition.Companion.START:
ScrollLogicalPosition get() = \"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
\"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val

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ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
 \"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
 \"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CSSBoxType {\n
 companion object{\n}\n\npublic inline val CSSBoxType.Companion.MARGIN: CSSBoxType get() =
 \"margin\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.BORDER:
CSSBoxType get() = \"border\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.PADDING: CSSBoxType get() =
 \"padding\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.CONTENT:
CSSBoxType get() = \"content\".asDynamic().unsafeCast<CSSBoxType>()\", /*\n\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED,
DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.fetch\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n\n * Exposes the JavaScript
[Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n\n */\n\npublic external open class
Headers(init: dynamic = definedExternally) {\n\n fun append(name: String, value: String)\n\n fun delete(name:
String)\n\n fun get(name: String): String?\n\n fun has(name: String): Boolean\n\n fun set(name: String, value:
String)\n\n}\n\n\n/**\n\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to
Kotlin\n\n */\n\npublic external interface Body {\n\n val bodyUsed: Boolean\n\n fun ArrayBuffer():
Promise<ArrayBuffer>\n\n fun blob(): Promise<Blob>\n\n fun formData(): Promise<FormData>\n\n fun json():
Promise<Any?>\n\n fun text(): Promise<String>\n\n}\n\n\n/**\n\n * Exposes the JavaScript
[Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n\n */\n\npublic external open class
Request(input: dynamic, init: RequestInit = definedExternally) : Body {\n\n open val method: String\n\n open val
url: String\n\n open val headers: Headers\n\n open val type: RequestType\n\n open val destination:
RequestDestination\n\n open val referrer: String\n\n open val referrerPolicy: dynamic\n\n open val mode:
RequestMode\n\n open val credentials: RequestCredentials\n\n open val cache: RequestCache\n\n open val
redirect: RequestRedirect\n\n open val integrity: String\n\n open val keepalive: Boolean\n\n override val
bodyUsed: Boolean\n\n fun clone(): Request\n\n override fun ArrayBuffer(): Promise<ArrayBuffer>\n\n override
fun blob(): Promise<Blob>\n\n override fun formData(): Promise<FormData>\n\n override fun json(): Promise<Any?>\n\n
 override fun text(): Promise<String>\n\n}\n\n\npublic external interface RequestInit {\n\n var method: String?\n
 get() = definedExternally\n\n set(value) = definedExternally\n\n var headers: dynamic\n\n get() =
definedExternally\n\n set(value) = definedExternally\n\n var body: dynamic\n\n get() = definedExternally\n
 set(value) = definedExternally\n\n var referrer: String?\n\n get() = definedExternally\n\n set(value) =
definedExternally\n\n var referrerPolicy: dynamic\n\n get() = definedExternally\n\n set(value) =
definedExternally\n\n var mode: RequestMode?\n\n get() = definedExternally\n\n set(value) =
definedExternally\n\n var credentials: RequestCredentials?\n\n get() = definedExternally\n\n set(value) =
definedExternally\n\n var cache: RequestCache?\n\n get() = definedExternally\n\n set(value) =
definedExternally\n\n var redirect: RequestRedirect?\n\n get() = definedExternally\n\n set(value) =
definedExternally\n\n var integrity: String?\n\n get() = definedExternally\n\n set(value) = definedExternally\n
 var keepalive: Boolean?\n\n get() = definedExternally\n\n set(value) = definedExternally\n\n var window:
Any?\n\n get() = definedExternally\n\n set(value) =
definedExternally\n\n}\n\n\n@kotlin.internal.InlineOnly\n\npublic inline fun RequestInit(method: String? = undefined,

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headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic =
undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache?
= undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? =
undefined, window: Any? = undefined): ResponseInit {\n val o = js("{}")\n o["method"] = method\n o["headers"] = headers\n o["body"] = body\n o["referrer"] = referrer\n o["referrerPolicy"] =
referrerPolicy\n o["mode"] = mode\n o["credentials"] = credentials\n o["cache"] = cache\n o["redirect"]
= redirect\n o["integrity"] = integrity\n o["keepalive"] = keepalive\n o["window"] = window\n return
o}\n}\n\n/*\n * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to
Kotlin\n */\n\npublic external open class Response(body: dynamic = definedExternally, init: ResponseInit =
definedExternally) : Body {\n open val type: ResponseType\n open val url: String\n open val redirected:
Boolean\n open val status: Short\n open val ok: Boolean\n open val statusText: String\n open val headers:
Headers\n open val body: dynamic\n open val trailer: Promise<Headers>\n override val bodyUsed: Boolean\n
fun clone(): Response\n override fun arrayBuffer(): Promise<ArrayBuffer>\n override fun blob():
Promise<Blob>\n override fun formData(): Promise<FormData>\n override fun json(): Promise<Any?>\n
override fun text(): Promise<String>\n\n companion object {\n fun error(): Response\n fun redirect(url:
String, status: Short = definedExternally): Response\n }\n}\n\npublic external interface ResponseInit {\n var
status: Short? /* = 200 */\n get() = definedExternally\n set(value) = definedExternally\n var statusText:
String? /* = "OK" */\n get() = definedExternally\n set(value) = definedExternally\n var headers:
dynamic\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ResponseInit(status: Short? = 200,
statusText: String? = "OK", headers: dynamic = undefined): ResponseInit {\n val o = js("{}")\n o["status"]
= status\n o["statusText"] = statusText\n o["headers"] = headers\n return o}\n}\n\n/* please, don't implement
this interface! */\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
RequestType {\n companion object\n}\n\npublic inline val RequestType.Companion.EMPTY: RequestType get()
= ""\n\npublic inline val RequestType.Companion.AUDIO:
RequestType get() = "audio"\n\npublic inline val
RequestType.Companion.FONT: RequestType get() = "font"\n\npublic inline val
RequestType.Companion.IMAGE: RequestType get() =
"image"\n\npublic inline val RequestType.Companion.SCRIPT:
RequestType get() = "script"\n\npublic inline val
RequestType.Companion.STYLE: RequestType get() =
"style"\n\npublic inline val RequestType.Companion.TRACK:
RequestType get() = "track"\n\npublic inline val
RequestType.Companion.VIDEO: RequestType get() = "video"\n\n/*
please, don't implement this interface! */\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
RequestDestination {\n companion object\n}\n\npublic inline val RequestDestination.Companion.EMPTY:
RequestDestination get() = ""\n\npublic inline val
RequestDestination.Companion.DOCUMENT: RequestDestination get() =
"document"\n\npublic inline val
RequestDestination.Companion.EMBED: RequestDestination get() =
"embed"\n\npublic inline val
RequestDestination.Companion.FONT: RequestDestination get() =
"font"\n\npublic inline val
RequestDestination.Companion.IMAGE: RequestDestination get() =
"image"\n\npublic inline val
RequestDestination.Companion.MANIFEST: RequestDestination get() =
"manifest"\n\npublic inline val

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RequestDestination.Companion.MEDIA: RequestDestination get() =
 \"media\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.OBJECT: RequestDestination get() =
 \"object\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.REPORT: RequestDestination get() =
 \"report\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SCRIPT: RequestDestination get() =
 \"script\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =
 \"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
 \"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
 \"style\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.WORKER: RequestDestination get() =
 \"worker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.XSLT: RequestDestination get() =
 \"xslt\".asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface RequestMode {\n
 companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE: RequestMode get() =
 \"navigate\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = \"same-
origin\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.NO_CORS:
RequestMode get() = \"no-cors\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.CORS: RequestMode get() = \"cors\".asDynamic().unsafeCast<RequestMode>()\n\n/*
please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
RequestCredentials {\n
 companion object\n}\n\npublic inline val RequestCredentials.Companion.OMIT:
RequestCredentials get() = \"omit\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = \"same-
origin\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
 \"include\".asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface RequestCache
{\n
 companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT: RequestCache get() =
 \"default\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_STORE:
RequestCache get() = \"no-store\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.RELOAD: RequestCache get() =
 \"reload\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_CACHE:
RequestCache get() = \"no-cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = \"force-
cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = \"only-if-
cached\".asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface RequestRedirect
{\n
 companion object\n}\n\npublic inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() =
 \"follow\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.ERROR:
RequestRedirect get() = \"error\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val

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RequestRedirect.Companion.MANUAL: RequestRedirect get() =
`"manual".asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface ResponseType
{\n companion object\n}\n\npublic inline val ResponseType.Companion.BASIC: ResponseType get() =
`"basic".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.CORS:
ResponseType get() = `cors".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.DEFAULT: ResponseType get() =
`default".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.ERROR:
ResponseType get() = `error".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUE: ResponseType get() =
`opaque".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() =
`opaqueredirect".asDynamic().unsafeCast<ResponseType>()"/*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n */\n\npublic external open
class MediaStream() : EventTarget, MediaProvider {\n constructor(stream: MediaStream)\n constructor(tracks:
Array<MediaStreamTrack>)\n open val id: String\n open val active: Boolean\n var onaddtrack:
((MediaStreamTrackEvent) -> dynamic)?\n var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\n fun
getAudioTracks(): Array<MediaStreamTrack>\n fun getVideoTracks(): Array<MediaStreamTrack>\n fun
getTracks(): Array<MediaStreamTrack>\n fun getTrackById(trackId: String): MediaStreamTrack?\n fun
addTrack(track: MediaStreamTrack)\n fun removeTrack(track: MediaStreamTrack)\n fun clone():
MediaStream\n}\n\n/**\n * Exposes the JavaScript
[MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n */\n\npublic
external abstract class MediaStreamTrack : EventTarget {\n open val kind: String\n open val id: String\n open
val label: String\n open var enabled: Boolean\n open val muted: Boolean\n open var onmute: ((Event) ->
dynamic)?\n open var onunmute: ((Event) -> dynamic)?\n open val readyState: MediaStreamTrackState\n
open var onended: ((Event) -> dynamic)?\n open var onoverconstrained: ((Event) -> dynamic)?\n fun clone():
MediaStreamTrack\n fun stop()\n fun getCapabilities(): MediaTrackCapabilities\n fun getConstraints():
MediaTrackConstraints\n fun getSettings(): MediaTrackSettings\n fun applyConstraints(constraints:
MediaTrackConstraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstrain
ts) to Kotlin\n */\n\npublic external interface MediaTrackSupportedConstraints {\n var width: Boolean? /* = true
/\n get() = definedExternally\n set(value) = definedExternally\n var height: Boolean? / = true */\n get() =
definedExternally\n set(value) = definedExternally\n var aspectRatio: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var frameRate: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var facingMode: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var resizeMode: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var volume: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var sampleRate: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var sampleSize: Boolean? /* = true */\n get() =

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definedExternally\n set(value) = definedExternally\n var echoCancellation: Boolean? /* = true */\n get()
= definedExternally\n set(value) = definedExternally\n var autoGainControl: Boolean? /* = true */\n get()
= definedExternally\n set(value) = definedExternally\n var noiseSuppression: Boolean? /* = true */\n
get() = definedExternally\n set(value) = definedExternally\n var latency: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var channelCount: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var deviceId: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var groupId: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true,
frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true,
sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl:
Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true,
deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\n val o = js("{}")\n
o["width"] = width\n o["height"] = height\n o["aspectRatio"] = aspectRatio\n o["frameRate"] =
frameRate\n o["facingMode"] = facingMode\n o["resizeMode"] = resizeMode\n o["volume"] = volume\n
o["sampleRate"] = sampleRate\n o["sampleSize"] = sampleSize\n o["echoCancellation"] =
echoCancellation\n o["autoGainControl"] = autoGainControl\n o["noiseSuppression"] = noiseSuppression\n
o["latency"] = latency\n o["channelCount"] = channelCount\n o["deviceId"] = deviceId\n o["groupId"] =
groupId\n return o\n}\n\npublic external interface MediaTrackCapabilities {\n var width: ULongRange?\n
get() = definedExternally\n set(value) = definedExternally\n var height: ULongRange?\n get() =
definedExternally\n set(value) = definedExternally\n var aspectRatio: DoubleRange?\n get() =
definedExternally\n set(value) = definedExternally\n var frameRate: DoubleRange?\n get() =
definedExternally\n set(value) = definedExternally\n var facingMode: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n var resizeMode: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n var volume: DoubleRange?\n get() =
definedExternally\n set(value) = definedExternally\n var sampleRate: ULongRange?\n get() =
definedExternally\n set(value) = definedExternally\n var sampleSize: ULongRange?\n get() =
definedExternally\n set(value) = definedExternally\n var echoCancellation: Array<Boolean>?\n get() =
definedExternally\n set(value) = definedExternally\n var autoGainControl: Array<Boolean>?\n get() =
definedExternally\n set(value) = definedExternally\n var noiseSuppression: Array<Boolean>?\n get() =
definedExternally\n set(value) = definedExternally\n var latency: DoubleRange?\n get() =
definedExternally\n set(value) = definedExternally\n var channelCount: ULongRange?\n get() =
definedExternally\n set(value) = definedExternally\n var deviceId: String?\n get() = definedExternally\n
set(value) = definedExternally\n var groupId: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackCapabilities(width:
ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined,
frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? =
undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize:
ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>?
= undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount:
ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities
{\n val o = js("{}")\n o["width"] = width\n o["height"] = height\n o["aspectRatio"] = aspectRatio\n
o["frameRate"] = frameRate\n o["facingMode"] = facingMode\n o["resizeMode"] = resizeMode\n
o["volume"] = volume\n o["sampleRate"] = sampleRate\n o["sampleSize"] = sampleSize\n
o["echoCancellation"] = echoCancellation\n o["autoGainControl"] = autoGainControl\n
o["noiseSuppression"] = noiseSuppression\n o["latency"] = latency\n o["channelCount"] = channelCount\n
o["deviceId"] = deviceId\n o["groupId"] = groupId\n return o\n}\n\n**\n * Exposes the JavaScript
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin\n

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*\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\n var advanced:
Array<MediaTrackConstraintSet>?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraints(advanced:
Array<MediaTrackConstraintSet>? = undefined, width: dynamic = undefined, height: dynamic = undefined,
aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined,
resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize:
dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined,
noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined,
deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraints {\n val o = js("{}")\n
o["advanced"] = advanced\n o["width"] = width\n o["height"] = height\n o["aspectRatio"] =
aspectRatio\n o["frameRate"] = frameRate\n o["facingMode"] = facingMode\n o["resizeMode"] =
resizeMode\n o["volume"] = volume\n o["sampleRate"] = sampleRate\n o["sampleSize"] = sampleSize\n
o["echoCancellation"] = echoCancellation\n o["autoGainControl"] = autoGainControl\n
o["noiseSuppression"] = noiseSuppression\n o["latency"] = latency\n o["channelCount"] = channelCount\n
o["deviceId"] = deviceId\n o["groupId"] = groupId\n return o\n}\n\npublic external interface
MediaTrackConstraintSet {\n var width: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var height: dynamic\n get() = definedExternally\n set(value) = definedExternally\n
var aspectRatio: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var frameRate:
dynamic\n get() = definedExternally\n set(value) = definedExternally\n var facingMode: dynamic\n
get() = definedExternally\n set(value) = definedExternally\n var resizeMode: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n var volume: dynamic\n get() = definedExternally\n
set(value) = definedExternally\n var sampleRate: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var sampleSize: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var echoCancellation: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var autoGainControl: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var noiseSuppression: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var latency: dynamic\n get() = definedExternally\n set(value) = definedExternally\n
var channelCount: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var deviceId:
dynamic\n get() = definedExternally\n set(value) = definedExternally\n var groupId: dynamic\n get()
= definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MediaTrackConstraintSet(width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic =
undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined,
volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined,
echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic =
undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined,
groupId: dynamic = undefined): MediaTrackConstraintSet {\n val o = js("{}")\n o["width"] = width\n
o["height"] = height\n o["aspectRatio"] = aspectRatio\n o["frameRate"] = frameRate\n o["facingMode"]
= facingMode\n o["resizeMode"] = resizeMode\n o["volume"] = volume\n o["sampleRate"] =
sampleRate\n o["sampleSize"] = sampleSize\n o["echoCancellation"] = echoCancellation\n
o["autoGainControl"] = autoGainControl\n o["noiseSuppression"] = noiseSuppression\n o["latency"] =
latency\n o["channelCount"] = channelCount\n o["deviceId"] = deviceId\n o["groupId"] = groupId\n
return o\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n
*\npublic external interface MediaTrackSettings {\n var width: Int?\n get() = definedExternally\n set(value) =
definedExternally\n var height: Int?\n get() = definedExternally\n set(value) = definedExternally\n var
aspectRatio: Double?\n get() = definedExternally\n set(value) = definedExternally\n var frameRate:
Double?\n get() = definedExternally\n set(value) = definedExternally\n var facingMode: String?\n
get() = definedExternally\n set(value) = definedExternally\n var resizeMode: String?\n get() =

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definedExternally\n set(value) = definedExternally\n var volume: Double?\n get() = definedExternally\n
 set(value) = definedExternally\n var sampleRate: Int?\n get() = definedExternally\n set(value) =
definedExternally\n var sampleSize: Int?\n get() = definedExternally\n set(value) = definedExternally\n
var echoCancellation: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var
autoGainControl: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var
noiseSuppression: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var latency:
Double?\n get() = definedExternally\n set(value) = definedExternally\n var channelCount: Int?\n
get() = definedExternally\n set(value) = definedExternally\n var deviceId: String?\n get() =
definedExternally\n set(value) = definedExternally\n var groupId: String?\n get() = definedExternally\n
 set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSettings(width:
Int? = undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined,
facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int?
= undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? =
undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined,
deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {\n val o = js("{}")\n
o["width"] = width\n o["height"] = height\n o["aspectRatio"] = aspectRatio\n o["frameRate"] =
frameRate\n o["facingMode"] = facingMode\n o["resizeMode"] = resizeMode\n o["volume"] = volume\n
o["sampleRate"] = sampleRate\n o["sampleSize"] = sampleSize\n o["echoCancellation"] =
echoCancellation\n o["autoGainControl"] = autoGainControl\n o["noiseSuppression"] = noiseSuppression\n
o["latency"] = latency\n o["channelCount"] = channelCount\n o["deviceId"] = deviceId\n o["groupId"] =
groupId\n return o\n}\n\n/**\n * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n
*/\npublic external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) :
Event {\n open val track: MediaStreamTrack\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
 }\n\n public external interface MediaStreamTrackEventInit : EventInit {\n var track: MediaStreamTrack?\n
get() = definedExternally\n set(value) = definedExternally\n }\n\n @kotlin.internal.InlineOnly\n public inline fun
MediaStreamTrackEventInit(track: MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): MediaStreamTrackEventInit {\n val o = js("{}")\n o["track"] = track\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n }\n\n public external open class OverconstrainedErrorEvent(type: String, eventInitDict:
OverconstrainedErrorEventInit) : Event {\n open val error: dynamic\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n\n public external interface OverconstrainedErrorEventInit : EventInit {\n var error: dynamic /*
= null */\n get() = definedExternally\n set(value) =
definedExternally\n }\n\n @kotlin.internal.InlineOnly\n public inline fun OverconstrainedErrorEventInit(error:
dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
OverconstrainedErrorEventInit {\n val o = js("{}")\n o["error"] = error\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n }\n\n /**\n * Exposes the JavaScript
[MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n */\n public external
abstract class MediaDevices : EventTarget {\n open var ondevicechange: ((Event) -> dynamic)?\n fun
enumerateDevices(): Promise<Array<MediaDeviceInfo>>\n fun getSupportedConstraints():
MediaTrackSupportedConstraints\n fun getUserMedia(constraints: MediaStreamConstraints = definedExternally):
Promise<MediaStream>\n }\n\n /**\n * Exposes the JavaScript
[MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\n */\n public
external abstract class MediaDeviceInfo {\n open val deviceId: String\n open val kind: MediaDeviceKind\n
 open val label: String\n open val groupId: String\n fun toJSON(): dynamic\n }\n\n public external abstract class
InputDeviceInfo : MediaDeviceInfo {\n fun getCapabilities(): MediaTrackCapabilities\n }\n\n /**\n * Exposes the

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JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to Kotlin\n \*\\npublic external interface MediaStreamConstraints {\n var video: dynamic /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n var audio: dynamic /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n val o = js("{}")\n o["video"] = video\n o["audio"] = audio\n return o\n}\n\npublic external interface ConstrainingPattern {\n var onoverconstrained: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n fun getCapabilities(): Capabilities\n fun getConstraints(): Constraints\n fun getSettings(): Settings\n fun applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\n}\n\n/\*\*\n \* Exposes the JavaScript

[DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n \*\\npublic external interface DoubleRange {\n var max: Double?\n get() = definedExternally\n set(value) = definedExternally\n var min: Double?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DoubleRange(max: Double? = undefined, min: Double? = undefined): DoubleRange {\n val o = js("{}")\n o["max"] = max\n o["min"] = min\n return o\n}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n var exact: Double?\n get() = definedExternally\n set(value) = definedExternally\n var ideal: Double?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDoubleRange(exact: Double? = undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined): ConstrainDoubleRange {\n val o = js("{}")\n o["exact"] = exact\n o["ideal"] = ideal\n o["max"] = max\n o["min"] = min\n return o\n}\n\npublic external interface ULongRange {\n var max: Int?\n get() = definedExternally\n set(value) = definedExternally\n var min: Int?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined, min: Int? = undefined): ULongRange {\n val o = js("{}")\n o["max"] = max\n o["min"] = min\n return o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n var exact: Int?\n get() = definedExternally\n set(value) = definedExternally\n var ideal: Int?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainULongRange(exact: Int? = undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n val o = js("{}")\n o["exact"] = exact\n o["ideal"] = ideal\n o["max"] = max\n o["min"] = min\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript

[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to Kotlin\n \*\\npublic external interface ConstrainBooleanParameters {\n var exact: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var ideal: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainBooleanParameters(exact: Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\n val o = js("{}")\n o["exact"] = exact\n o["ideal"] = ideal\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript

[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to Kotlin\n \*\\npublic external interface ConstrainDOMStringParameters {\n var exact: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var ideal: dynamic\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {\n val o = js("{}")\n o["exact"] = exact\n o["ideal"] = ideal\n return o\n}\n\npublic external interface Capabilities\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n val o = js("{}")\n return o\n}\n\npublic external interface Settings\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n val o = js("{}")\n return o\n}\n\npublic external interface ConstraintSet\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n val o = js("{}")\n return o\n}\n\npublic external interface Constraints : ConstraintSet {\n



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var advanced: Array<ConstraintSet>? \n get() = definedExternally \n set(value) =
definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun Constraints(advanced:
Array<ConstraintSet>? = undefined): Constraints { \n val o = js("{}") \n o["advanced"] = advanced \n
return o \n} \n \n /* please, don't implement this interface!
*\n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external interface
MediaStreamTrackState { \n companion object \n} \n \n public inline val MediaStreamTrackState.Companion.LIVE:
MediaStreamTrackState get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>() \n \n public inline val
MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() =
"ended".asDynamic().unsafeCast<MediaStreamTrackState>() \n \n /* please, don't implement this interface!
*\n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external interface
VideoFacingModeEnum { \n companion object \n} \n \n public inline val
VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() =
"user".asDynamic().unsafeCast<VideoFacingModeEnum>() \n \n public inline val
VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() =
"environment".asDynamic().unsafeCast<VideoFacingModeEnum>() \n \n public inline val
VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() =
"left".asDynamic().unsafeCast<VideoFacingModeEnum>() \n \n public inline val
VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() =
"right".asDynamic().unsafeCast<VideoFacingModeEnum>() \n \n /* please, don't implement this interface!
*\n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external interface
VideoResizeModeEnum { \n companion object \n} \n \n public inline val
VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() =
"none".asDynamic().unsafeCast<VideoResizeModeEnum>() \n \n public inline val
VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = "crop-and-
scale".asDynamic().unsafeCast<VideoResizeModeEnum>() \n \n /* please, don't implement this interface!
*\n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public external interface
MediaDeviceKind { \n companion object \n} \n \n public inline val MediaDeviceKind.Companion.AUDIOINPUT:
MediaDeviceKind get() = "audioinput".asDynamic().unsafeCast<MediaDeviceKind>() \n \n public inline val
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() =
"audiooutput".asDynamic().unsafeCast<MediaDeviceKind>() \n \n public inline val
MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() =
"videoinput".asDynamic().unsafeCast<MediaDeviceKind>() \n \n /*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file. \n * \n \n // NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT! \n // See github.com/kotlin/dukat for details \n \n package org.w3c.dom.mediasource \n \n import
kotlin.js.* \n import org.khronos.webgl.* \n import org.w3c.css.masking.* \n import org.w3c.dom.* \n import
org.w3c.dom.clipboard.* \n import org.w3c.dom.css.* \n import org.w3c.dom.encryptedmedia.* \n import
org.w3c.dom.events.* \n import org.w3c.dom.mediacapture.* \n import org.w3c.dom.parsing.* \n import
org.w3c.dom.pointerevents.* \n import org.w3c.dom.svg.* \n import org.w3c.dom.url.* \n import
org.w3c.fetch.* \n import org.w3c.files.* \n import org.w3c.notifications.* \n import org.w3c.performance.* \n import
org.w3c.workers.* \n import org.w3c.xhr.* \n \n public external open class MediaSource : EventTarget, MediaProvider
{ \n open val sourceBuffers: SourceBufferList \n open val activeSourceBuffers: SourceBufferList \n open val
readyState: ReadyState \n var duration: Double \n var onsourceopen: ((Event) -> dynamic)? \n var
onsourceended: ((Event) -> dynamic)? \n var onsourceclose: ((Event) -> dynamic)? \n fun addSourceBuffer(type:
String): SourceBuffer \n fun removeSourceBuffer(sourceBuffer: SourceBuffer) \n fun endOfStream(error:
EndOfStreamError = definedExternally) \n fun setLiveSeekableRange(start: Double, end: Double) \n fun
clearLiveSeekableRange() \n \n companion object { \n fun isTypeSupported(type: String): Boolean \n
 } \n} \n \n public external abstract class SourceBuffer : EventTarget { \n open var mode: AppendMode \n open val

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updating: Boolean\n open val buffered: TimeRanges\n open var timestampOffset: Double\n open val
audioTracks: AudioTrackList\n open val videoTracks: VideoTrackList\n open val textTracks: TextTrackList\n
open val appendWindowStart: Double\n open val appendWindowEnd: Double\n open val onupdatestart:
((Event) -> dynamic)?\n open val onupdate: ((Event) -> dynamic)?\n open val onupdateend: ((Event) ->
dynamic)?\n open val onerror: ((Event) -> dynamic)?\n open val onabort: ((Event) -> dynamic)?\n fun
appendBuffer(data: dynamic)\n fun abort()\n fun remove(start: Double, end: Double)\n}\n\npublic external
abstract class SourceBufferList : EventTarget {\n open val length: Int\n open val onaddsourcebuffer: ((Event) ->
dynamic)?\n open val onremovesourcebuffer: ((Event) -> dynamic)?\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun SourceBufferList.get(index: Int): SourceBuffer? = asDynamic()[index]\n\n/* please, don't
implement this interface! */\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface ReadyState {\n companion object\n}\n\npublic inline val ReadyState.Companion.CLOSED: ReadyState
get() = "closed".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.OPEN:
ReadyState get() = "open".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val
ReadyState.Companion.ENDED: ReadyState get() = "ended".asDynamic().unsafeCast<ReadyState>()\n\n/*
please, don't implement this interface!
*/\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface
EndOfStreamError {\n companion object\n}\n\npublic inline val EndOfStreamError.Companion.NETWORK:
EndOfStreamError get() = "network".asDynamic().unsafeCast<EndOfStreamError>()\n\npublic inline val
EndOfStreamError.Companion.DECODE: EndOfStreamError get() =
"decode".asDynamic().unsafeCast<EndOfStreamError>()\n\n/* please, don't implement this interface!
*/\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface AppendMode {\n
companion object\n}\n\npublic inline val AppendMode.Companion.SEGMENTS: AppendMode get() =
"segments".asDynamic().unsafeCast<AppendMode>()\n\npublic inline val
AppendMode.Companion.SEQUENCE: AppendMode get() =
"sequence".asDynamic().unsafeCast<AppendMode>(), /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n * \n\n/* NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n/*
See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport
org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport
org.w3c.xhr.*\n\npublic external interface PointerEventInit : MouseEventInit {\n var pointerId: Int? /* = 0 */\n
get() = definedExternally\n set(value) = definedExternally\n var width: Double? /* = 1.0 */\n get() =
definedExternally\n set(value) = definedExternally\n var height: Double? /* = 1.0 */\n get() =
definedExternally\n set(value) = definedExternally\n var pressure: Float? /* = 0f */\n get() =
definedExternally\n set(value) = definedExternally\n var tangentialPressure: Float? /* = 0f */\n get() =
definedExternally\n set(value) = definedExternally\n var tiltX: Int? /* = 0 */\n get() = definedExternally\n
set(value) = definedExternally\n var tiltY: Int? /* = 0 */\n get() = definedExternally\n set(value) =
definedExternally\n var twist: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n
var pointerType: String? /* = "" */\n get() = definedExternally\n set(value) = definedExternally\n var
isPrimary: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PointerEventInit(pointerId: Int? = 0, width:
Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0, tiltY:
Int? = 0, twist: Int? = 0, pointerType: String? = "", isPrimary: Boolean? = false, screenX: Int? = 0, screenY: Int? =
0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null,
region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey:

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Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean?
= false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,
modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): PointerEventInit {\n val o = js("{}")\n
o["pointerId"] = pointerId\n o["width"] = width\n o["height"] = height\n o["pressure"] = pressure\n
o["tangentialPressure"] = tangentialPressure\n o["tiltX"] = tiltX\n o["tiltY"] = tiltY\n o["twist"] = twist\n
o["pointerType"] = pointerType\n o["isPrimary"] = isPrimary\n o["screenX"] = screenX\n o["screenY"]
= screenY\n o["clientX"] = clientX\n o["clientY"] = clientY\n o["button"] = button\n o["buttons"] =
buttons\n o["relatedTarget"] = relatedTarget\n o["region"] = region\n o["ctrlKey"] = ctrlKey\n
o["shiftKey"] = shiftKey\n o["altKey"] = altKey\n o["metaKey"] = metaKey\n o["modifierAltGraph"] =
modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n o["modifierFn"] = modifierFn\n
o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] = modifierHyper\n o["modifierNumLock"] =
modifierNumLock\n o["modifierScrollLock"] = modifierScrollLock\n o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] =
view\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n */\npublic external open
class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\n open val
pointerId: Int\n open val width: Double\n open val height: Double\n open val pressure: Float\n open val
tangentialPressure: Float\n open val tiltX: Int\n open val tiltY: Int\n open val twist: Int\n open val
pointerType: String\n open val isPrimary: Boolean\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}"/**\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS
FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.mediasource.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n */\npublic external
abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n
open val dataset: DOMStringMap\n open val ownerSVGElement: SVGSVGElement?\n open val
viewportElement: SVGElement?\n open var tabIndex: Int\n fun focus()\n fun blur()\n\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
SVGBoundingBoxOptions {\n var fill: Boolean? /* = true */\n get() = definedExternally\n set(value) =
definedExternally\n var stroke: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var markers: Boolean? /* = false */\n get() = definedExternally\n set(value) =

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definedExternally\n var clipped: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun SVGBoundingBoxOptions(fill: Boolean? =
true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {\n
 val o = js("{}")\n o["fill"] = fill\n o["stroke"] = stroke\n o["markers"] = markers\n o["clipped"] =
clipped\n return o\n}\n\n/**\n * Exposes the JavaScript
[SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n
*/\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n open val transform:
SVGAnimatedTransformList\n fun getBBox(options: SVGBoundingBoxOptions = definedExternally):
DOMRect\n fun getCTM(): DOMMatrix?\n fun getScreenCTM(): DOMMatrix?\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\n
*/\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\n open val pathLength:
SVGAnimatedNumber\n fun isPointInFill(point: DOMPoint): Boolean\n fun isPointInStroke(point: DOMPoint):
Boolean\n fun getTotalLength(): Float\n fun getPointAtLength(distance: Float): DOMPoint\n\n companion
object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n
*/\npublic external
abstract class SVGNumber {\n open var value: Float\n}\n\n/**\n * Exposes the JavaScript
[SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n
*/\npublic external abstract
class SVGLength {\n open val unitType: Short\n open var value: Float\n open var valueInSpecifiedUnits:
Float\n open var valueAsString: String\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val
SVG_LENGTHTYPE_UNKNOWN: Short\n val SVG_LENGTHTYPE_NUMBER: Short\n val
SVG_LENGTHTYPE_PERCENTAGE: Short\n val SVG_LENGTHTYPE_EMS: Short\n val
SVG_LENGTHTYPE_EXS: Short\n val SVG_LENGTHTYPE_PX: Short\n val
SVG_LENGTHTYPE_CM: Short\n val SVG_LENGTHTYPE_MM: Short\n val
SVG_LENGTHTYPE_IN: Short\n val SVG_LENGTHTYPE_PT: Short\n val SVG_LENGTHTYPE_PC:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n
*/\npublic external abstract
class SVGAngle {\n open val unitType: Short\n open var value: Float\n open var valueInSpecifiedUnits:
Float\n open var valueAsString: String\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val
SVG_ANGLETYPE_UNKNOWN: Short\n val SVG_ANGLETYPE_UNSPECIFIED: Short\n val

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SVG_ANGLETYPE_DEG: Short\n val SVG_ANGLETYPE_RAD: Short\n val
SVG_ANGLETYPE_GRAD: Short\n }\n}\n\npublic external abstract class SVGNameList {\n open val length:
Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: dynamic): dynamic\n fun
insertItemBefore(newItem: dynamic, index: Int): dynamic\n fun replaceItem(newItem: dynamic, index: Int):
dynamic\n fun removeItem(index: Int): dynamic\n fun appendItem(newItem: dynamic): dynamic\n fun
getItem(index: Int): dynamic\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
SVGNameList.get(index: Int): dynamic = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline
operator fun SVGNameList.set(index: Int, newItem: dynamic) { asDynamic()[index] = newItem }\n\n/**\n *
Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to
Kotlin\n *
\npublic external abstract class SVGNumberList {\n open val length: Int\n open val numberOfItems:
Int\n fun clear()\n fun initialize(newItem: SVGNumber): SVGNumber\n fun insertItemBefore(newItem:
SVGNumber, index: Int): SVGNumber\n fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n fun
removeItem(index: Int): SVGNumber\n fun appendItem(newItem: SVGNumber): SVGNumber\n fun
getItem(index: Int): SVGNumber\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline
operator fun SVGNumberList.set(index: Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\n/**\n *
Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to
Kotlin\n *
\npublic external abstract class SVGLengthList {\n open val length: Int\n open val numberOfItems:
Int\n fun clear()\n fun initialize(newItem: SVGLength): SVGLength\n fun insertItemBefore(newItem:
SVGLength, index: Int): SVGLength\n fun replaceItem(newItem: SVGLength, index: Int): SVGLength\n fun
removeItem(index: Int): SVGLength\n fun appendItem(newItem: SVGLength): SVGLength\n fun
getItem(index: Int): SVGLength\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline
operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }\n\n/**\n *
Exposes the JavaScript
[SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n *
\npublic external abstract class SVGAnimatedBoolean {\n open var baseVal: Boolean\n open val animVal:
Boolean\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to
Kotlin\n *
\npublic external abstract class SVGAnimatedEnumeration {\n open var baseVal: Short\n open val
animVal: Short\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n *
\npublic external abstract class SVGAnimatedInteger {\n open var baseVal: Int\n open val animVal:
Int\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n *
\npublic external abstract class SVGAnimatedNumber {\n open var baseVal: Float\n open val animVal:
Float\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n *
\npublic external abstract class SVGAnimatedLength {\n open val baseVal: SVGLength\n open val animVal:
SVGLength\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n *
\npublic external abstract class SVGAnimatedAngle {\n open val baseVal: SVGAngle\n open val animVal:
SVGAngle\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n *
\npublic external abstract class SVGAnimatedString {\n open var baseVal: String\n open val animVal:
String\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect)
to Kotlin\n *
\npublic external abstract class SVGAnimatedRect {\n open val baseVal: DOMRect\n open val
animVal: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript

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[SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n
`*\npublic external abstract class SVGAnimatedNumberList {\n open val baseVal: SVGNumberList\n open val animVal: SVGNumberList}\n\n/**\n * Exposes the JavaScript`

[SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n
`*\npublic external abstract class SVGAnimatedLengthList {\n open val baseVal: SVGLengthList\n open val animVal: SVGLengthList}\n\n/**\n * Exposes the JavaScript`

[SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n
`*\npublic external abstract class SVGStringList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: String): String\n fun insertItemBefore(newItem: String, index: Int): String\n fun replaceItem(newItem: String, index: Int): String\n fun removeItem(index: Int): String\n fun appendItem(newItem: String): String\n fun getItem(index: Int): String}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript`

[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n
`*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface SVGUnitTypes {\n companion object {\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n }\n}\n\n/**\n * Exposes the JavaScript`

[SVGTTests](https://developer.mozilla.org/en/docs/Web/API/SVGTTests) to Kotlin\n
`*\npublic external interface SVGTTests {\n val requiredExtensions: SVGStringList\n val systemLanguage: SVGStringList}\n\npublic external interface SVGFitToViewBox {\n val viewBox: SVGAnimatedRect\n val preserveAspectRatio: SVGAnimatedPreserveAspectRatio}\n\n/**\n * Exposes the JavaScript`

[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n
`*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface SVGZoomAndPan {\n var zoomAndPan: Short\n\n companion object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n }\n}\n\n/**\n * Exposes the JavaScript`

[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n
`*\npublic external interface SVGURIReference {\n val href: SVGAnimatedString}\n\n/**\n * Exposes the JavaScript`

[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n
`*\npublic external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open var currentScale: Float\n open val currentTranslate: DOMPointReadOnly\n fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun deselectAll()\n fun createSVGNumber(): SVGNumber\n fun createSVGLength(): SVGLength\n fun createSVGAngle(): SVGAngle\n fun createSVGPoint(): DOMPoint\n fun createSVGMatrix(): DOMMatrix\n fun createSVGRect(): DOMRect\n fun createSVGTransform(): SVGTransform\n fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n fun getElementById(elementId: String): Element\n fun suspendRedraw(maxWaitMilliseconds: Int): Int\n fun unsuspendRedraw(suspendHandleID: Int)\n fun unsuspendRedrawAll()\n fun forceRedraw()\n\n companion object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val`

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PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\n */\npublic external
abstract class SVGGElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGUnknownElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\n */\npublic
external abstract class SVGDefsElement : SVGGraphicsElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\n */\npublic
external abstract class SVGDescElement : SVGElement {\n companion object {\n val
ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 }

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 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n
*\npublic external abstract class SVGMetadataElement : SVGElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n
*\npublic
external abstract class SVGTitleElement : SVGElement {\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\n
*\npublic
external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
 val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n
*\npublic external
abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n open val x:
SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val
height: SVGAnimatedLength\n open val instanceRoot: SVGElement?\n open val animatedInstanceRoot:
SVGElement?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\npublic external open class
SVGUseElementShadowRoot : ShadowRoot {\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\npublic external interface
SVGElementInstance {\n val correspondingElement: SVGElement?\n get() = definedExternally\n val
correspondingUseElement: SVGUseElement?\n get() = definedExternally\n}\n\npublic external open class
ShadowAnimation(source: dynamic, newTarget: dynamic) {\n open val sourceAnimation: dynamic\n}\n\n/**\n *
Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement)
to Kotlin\n */\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\npublic external interface
GetSVGDocument {\n fun getSVGDocument(): Document\n}\n\n/**\n * Exposes the JavaScript
[SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n */\npublic
external abstract class SVGStyleElement : SVGElement, LinkStyle {\n open var type: String\n open var media:
String\n open var title: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n/**\n * Exposes the JavaScript
[SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\n */\npublic external
abstract class SVGTransform {\n open val type: Short\n open val matrix: DOMMatrix\n open val angle:
Float\n fun setMatrix(matrix: DOMMatrixReadOnly)\n fun setTranslate(tx: Float, ty: Float)\n fun setScale(sx:
Float, sy: Float)\n fun setRotate(angle: Float, cx: Float, cy: Float)\n fun setSkewX(angle: Float)\n fun
setSkewY(angle: Float)\n\n companion object {\n val SVG_TRANSFORM_UNKNOWN: Short\n val
SVG_TRANSFORM_MATRIX: Short\n val SVG_TRANSFORM_TRANSLATE: Short\n val
SVG_TRANSFORM_SCALE: Short\n val SVG_TRANSFORM_ROTATE: Short\n val
SVG_TRANSFORM_SKEWX: Short\n val SVG_TRANSFORM_SKEWY: Short\n } \n}\n\n/**\n * Exposes
the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\n
*/\npublic external abstract class SVGTransformList {\n open val length: Int\n open val numberOfItems: Int\n

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fun clear()\n fun initialize(newItem: SVGTransform): SVGTransform\n fun insertItemBefore(newItem:
SVGTransform, index: Int): SVGTransform\n fun replaceItem(newItem: SVGTransform, index: Int):
SVGTransform\n fun removeItem(index: Int): SVGTransform\n fun appendItem(newItem: SVGTransform):
SVGTransform\n fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n fun
consolidate(): SVGTransform?\n fun getItem(index: Int):
SVGTransform\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.get(index: Int):
SVGTransform? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }\n\n/**\n * Exposes
the JavaScript
[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to
Kotlin\n\n *\n\npublic external abstract class SVGAnimatedTransformList {\n open val baseVal:
SVGTransformList\n open val animVal: SVGTransformList\n}\n\n/**\n * Exposes the JavaScript
[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\n\n
*\n\npublic external abstract class SVGPreserveAspectRatio {\n open var align: Short\n open var meetOrSlice:
Short\n\n companion object {\n val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n val
SVG_PRESERVEASPECTRATIO_NONE: Short\n val SVG_PRESERVEASPECTRATIO_XMINYMIN:
Short\n val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n val
SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n val
SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n val SVG_MEETORSLICE_UNKNOWN: Short\n
val SVG_MEETORSLICE_MEET: Short\n val SVG_MEETORSLICE_SLICE: Short\n }\n}\n\n/**\n *
Exposes the JavaScript
[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect
Ratio) to Kotlin\n\n *\n\npublic external abstract class SVGAnimatedPreserveAspectRatio {\n open val baseVal:
SVGPreserveAspectRatio\n open val animVal: SVGPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n\n *\n\npublic
external abstract class SVGPathElement : SVGGeometryElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\n\n *\n\npublic
external abstract class SVGRectElement : SVGGeometryElement {\n open val x: SVGAnimatedLength\n open
val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n
open val rx: SVGAnimatedLength\n open val ry: SVGAnimatedLength\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val

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DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin\n */\npublic
external abstract class SVGCircleElement : SVGGeometryElement {\n open val cx: SVGAnimatedLength\n
open val cy: SVGAnimatedLength\n open val r: SVGAnimatedLength\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin\n */\npublic
external abstract class SVGEllipseElement : SVGGeometryElement {\n open val cx: SVGAnimatedLength\n
open val cy: SVGAnimatedLength\n open val rx: SVGAnimatedLength\n open val ry: SVGAnimatedLength\n\n
 companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin\n */\npublic
external abstract class SVGLineElement : SVGGeometryElement {\n open val x1: SVGAnimatedLength\n open
val y1: SVGAnimatedLength\n open val x2: SVGAnimatedLength\n open val y2: SVGAnimatedLength\n\n
 companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin\n */\npublic
external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\n companion object {\n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

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DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin \n
*\npublic external interface SVGAnimatedPoints { \n val points: SVGPointList \n val animatedPoints:
SVGPointList \n} \n \n public external abstract class SVGPointList { \n open val length: Int \n open val
numberOfItems: Int \n fun clear() \n fun initialize(newItem: DOMPoint): DOMPoint \n fun
insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint \n fun replaceItem(newItem: DOMPoint, index:
Int): DOMPoint \n fun removeItem(index: Int): DOMPoint \n fun appendItem(newItem: DOMPoint):
DOMPoint \n fun getItem(index: Int): DOMPoint \n} \n \n @kotlin.internal.InlineOnly \n public inline operator fun
SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index] \n \n @kotlin.internal.InlineOnly \n public inline
operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem } \n \n /** \n *
Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVPolylineElement) to Kotlin \n
*\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints { \n
companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin \n
*\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints { \n
companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin \n
*\npublic external abstract class SVGTextContentElement : SVGGraphicsElement { \n open val textLength:
SVGAnimatedLength \n open val lengthAdjust: SVGAnimatedEnumeration \n fun getNumberOfChars(): Int \n
fun getComputedTextLength(): Float \n fun getSubStringLength(charnum: Int, nchars: Int): Float \n fun
getStartPositionOfChar(charnum: Int): DOMPoint \n fun getEndPositionOfChar(charnum: Int): DOMPoint \n fun
getExtentOfChar(charnum: Int): DOMRect \n fun getRotationOfChar(charnum: Int): Float \n fun
getCharNumAtPosition(point: DOMPoint): Int \n fun selectSubString(charnum: Int, nchars: Int) \n \n
companion object { \n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n
 val LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

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DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript  
[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to Kotlin \n \* \n public external abstract class SVGTextPositioningElement : SVGTextContentElement { \n open val x:  
SVGAnimatedLengthList \n open val y: SVGAnimatedLengthList \n open val dx: SVGAnimatedLengthList \n  
open val dy: SVGAnimatedLengthList \n open val rotate: SVGAnimatedNumberList \n \n companion object { \n  
val LENGTHADJUST\_UNKNOWN: Short \n val LENGTHADJUST\_SPACING: Short \n val  
LENGTHADJUST\_SPACINGANDGLYPHS: Short \n val ELEMENT\_NODE: Short \n val  
ATTRIBUTE\_NODE: Short \n val TEXT\_NODE: Short \n val CDATA\_SECTION\_NODE: Short \n val  
ENTITY\_REFERENCE\_NODE: Short \n val ENTITY\_NODE: Short \n val  
PROCESSING\_INSTRUCTION\_NODE: Short \n val COMMENT\_NODE: Short \n val  
DOCUMENT\_NODE: Short \n val DOCUMENT\_TYPE\_NODE: Short \n val  
DOCUMENT\_FRAGMENT\_NODE: Short \n val NOTATION\_NODE: Short \n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short \n val DOCUMENT\_POSITION\_PRECEDING: Short \n  
val DOCUMENT\_POSITION\_FOLLOWING: Short \n val DOCUMENT\_POSITION\_CONTAINS: Short \n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short \n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript  
[SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin \n \* \n public  
external abstract class SVGTextElement : SVGTextPositioningElement { \n companion object { \n val  
LENGTHADJUST\_UNKNOWN: Short \n val LENGTHADJUST\_SPACING: Short \n val  
LENGTHADJUST\_SPACINGANDGLYPHS: Short \n val ELEMENT\_NODE: Short \n val  
ATTRIBUTE\_NODE: Short \n val TEXT\_NODE: Short \n val CDATA\_SECTION\_NODE: Short \n val  
ENTITY\_REFERENCE\_NODE: Short \n val ENTITY\_NODE: Short \n val  
PROCESSING\_INSTRUCTION\_NODE: Short \n val COMMENT\_NODE: Short \n val  
DOCUMENT\_NODE: Short \n val DOCUMENT\_TYPE\_NODE: Short \n val  
DOCUMENT\_FRAGMENT\_NODE: Short \n val NOTATION\_NODE: Short \n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short \n val DOCUMENT\_POSITION\_PRECEDING: Short \n  
val DOCUMENT\_POSITION\_FOLLOWING: Short \n val DOCUMENT\_POSITION\_CONTAINS: Short \n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short \n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript  
[SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin \n \* \n public  
external abstract class SVGTSpanElement : SVGTextPositioningElement { \n companion object { \n val  
LENGTHADJUST\_UNKNOWN: Short \n val LENGTHADJUST\_SPACING: Short \n val  
LENGTHADJUST\_SPACINGANDGLYPHS: Short \n val ELEMENT\_NODE: Short \n val  
ATTRIBUTE\_NODE: Short \n val TEXT\_NODE: Short \n val CDATA\_SECTION\_NODE: Short \n val  
ENTITY\_REFERENCE\_NODE: Short \n val ENTITY\_NODE: Short \n val  
PROCESSING\_INSTRUCTION\_NODE: Short \n val COMMENT\_NODE: Short \n val  
DOCUMENT\_NODE: Short \n val DOCUMENT\_TYPE\_NODE: Short \n val  
DOCUMENT\_FRAGMENT\_NODE: Short \n val NOTATION\_NODE: Short \n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short \n val DOCUMENT\_POSITION\_PRECEDING: Short \n  
val DOCUMENT\_POSITION\_FOLLOWING: Short \n val DOCUMENT\_POSITION\_CONTAINS: Short \n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short \n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript  
[SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin \n

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*/\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n open
val startOffset: SVGAnimatedLength\n open val method: SVGAnimatedEnumeration\n open val spacing:
SVGAnimatedEnumeration\n\n companion object {\n val TEXTPATH_METHODTYPE_UNKNOWN:
Short\n val TEXTPATH_METHODTYPE_ALIGN: Short\n val
TEXTPATH_METHODTYPE_STRETCH: Short\n val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\n
val TEXTPATH_SPACINGTYPE_AUTO: Short\n val TEXTPATH_SPACINGTYPE_EXACT: Short\n
val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n val
LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n /**\n * Exposes the JavaScript
[SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n
*/\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference,
HTMLOrSVGImageElement {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open
val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n open var crossOrigin: String?\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n /**\n * Exposes the JavaScript
[SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to
Kotlin\n
*/\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\n open val x:
SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val
height: SVGAnimatedLength\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n /**\n * Exposes the JavaScript
[SVGMarkerElement](https://developer.mozilla.org/en/docs/Web/API/SVGMarkerElement) to Kotlin\n
*/\npublic external abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {\n open val refX: SVGAnimatedLength\n open val
refY: SVGAnimatedLength\n open val markerUnits: SVGAnimatedEnumeration\n open val markerWidth:
SVGAnimatedLength\n open val markerHeight: SVGAnimatedLength\n open val orientType:
SVGAnimatedEnumeration\n open val orientAngle: SVGAnimatedAngle\n open var orient: String\n fun

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setOrientToAuto()\n fun setOrientToAngle(angle: SVGAngle)\n\n companion object {\n val
SVG_MARKERUNITS_UNKNOWN: Short\n val SVG_MARKERUNITS_USERSPACEONUSE: Short\n
val SVG_MARKERUNITS_STROKEWIDTH: Short\n val SVG_MARKER_ORIENT_UNKNOWN: Short\n
 val SVG_MARKER_ORIENT_AUTO: Short\n val SVG_MARKER_ORIENT_ANGLE: Short\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n\n/**\n * Exposes the JavaScript
[SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin\n
*\n\npublic external abstract class SVGSolidcolorElement : SVGElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n\n\n/**\n * Exposes the JavaScript
[SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\n
*\n\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\n
open val gradientUnits: SVGAnimatedEnumeration\n open val gradientTransform: SVGAnimatedTransformList\n
open val spreadMethod: SVGAnimatedEnumeration\n\n\n companion object {\n val
SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val
SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val
SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n\n\n\n/**\n * Exposes the JavaScript
[SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to
Kotlin\n
*\n\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n open val x1:
SVGAnimatedLength\n open val y1: SVGAnimatedLength\n open val x2: SVGAnimatedLength\n open val
y2: SVGAnimatedLength\n\n\n companion object {\n val SVG_SPREADMETHOD_UNKNOWN: Short\n
val SVG_SPREADMETHOD_PAD: Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val
SVG_SPREADMETHOD_REPEAT: Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:

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Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
 val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\n/** \n * Exposes the JavaScript
[SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to
Kotlin \n * \n\npublic external abstract class SVGRadialGradientElement : SVGGradientElement { \n open val cx:
SVGAnimatedLength \n open val cy: SVGAnimatedLength \n open val r: SVGAnimatedLength \n open val fx:
SVGAnimatedLength \n open val fy: SVGAnimatedLength \n open val fr: SVGAnimatedLength \n\n companion
object { \n val SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD:
Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT:
Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE:
Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n
 val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
 val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\npublic external abstract class
SVGMeshGradientElement : SVGGradientElement { \n companion object { \n val
SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val
SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val
SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\npublic external abstract class
SVGMeshrowElement : SVGElement { \n companion object { \n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

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 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGMeshpatchElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin\n */\n\npublic
external abstract class SVGStopElement : SVGElement {\n open val offset: SVGAnimatedNumber\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin\n */\n\npublic
external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference,
SVGUnitTypes {\n open val patternUnits: SVGAnimatedEnumeration\n open val patternContentUnits:
SVGAnimatedEnumeration\n open val patternTransform: SVGAnimatedTransformList\n open val x:
SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val
height: SVGAnimatedLength\n\n companion object {\n val SVG_UNIT_TYPE_UNKNOWN: Short\n
 val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
 val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGHatchElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGHatchpathElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\n */\npublic
external abstract class SVGCursorElement : SVGElement, SVGURIReference {\n open val x:
SVGAnimatedLength\n open val y: SVGAnimatedLength\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\n */\npublic
external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {\n
 open var type: String\n open var crossOrigin: String?\n\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGAEElement](https://developer.mozilla.org/en/docs/Web/API/SVGAEElement) to Kotlin\n */\npublic external
abstract class SVGAEElement : SVGGraphicsElement, SVGURIReference {\n open val target:
SVGAnimatedString\n open val download: SVGAnimatedString\n open val rel: SVGAnimatedString\n open
val relList: SVGAnimatedString\n open val hreflang: SVGAnimatedString\n open val type:
SVGAnimatedString\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\n *\npublic
external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\n companion
object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE:
Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}"/**\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.files\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\n *\npublic external open class
Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) :
MediaProvider, ImageBitmapSource {\n open val size: Number\n open val type: String\n open val isClosed:
Boolean\n fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String =
definedExternally): Blob\n fun close()\n}\n\npublic external interface BlobPropertyBag {\n var type: String? /*
= \"\" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun BlobPropertyBag(type: String? = \"\"):
BlobPropertyBag {\n val o = js(\"({})\")\n o[\"type\"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript
[File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\n *\npublic external open class File(fileBits:
Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {\n open val name:
String\n open val lastModified: Int\n}\n\npublic external interface FilePropertyBag : BlobPropertyBag {\n var
lastModified: Int?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun FilePropertyBag(lastModified: Int? =
undefined, type: String? = \"\"): FilePropertyBag {\n val o = js(\"({})\")\n o[\"lastModified\"] = lastModified\n
o[\"type\"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript
[FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin\n *\npublic external abstract class
FileList : ItemArrayLike<File> {\n override fun item(index: Int): File?\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun FileList.get(index: Int): File? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\n *\npublic external open class
FileReader : EventTarget {\n open val readyState: Short\n open val result: dynamic\n open val error:
dynamic\n var onloadstart: ((ProgressEvent) -> dynamic)?\n var onprogress: ((ProgressEvent) -> dynamic)?\n
var onload: ((Event) -> dynamic)?\n var onabort: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n
var onloadend: ((Event) -> dynamic)?\n fun readAsArrayBuffer(blob: Blob)\n fun readAsBinaryString(blob:
Blob)\n fun readAsText(blob: Blob, label: String = definedExternally)\n fun readAsDataURL(blob: Blob)\n
fun abort()\n\n companion object {\n val EMPTY: Short\n val LOADING: Short\n val DONE:

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o["timestamp"] = timestamp\n o["renotify"] = renotify\n o["silent"] = silent\n o["noscreen"] = noscreen\n
 o["requireInteraction"] = requireInteraction\n o["sticky"] = sticky\n o["data"] = data\n o["actions"] =
actions\n return o\n}\n\npublic external interface NotificationAction {\n var action: String?\n get() =
definedExternally\n set(value) = definedExternally\n var title: String?\n get() = definedExternally\n
set(value) = definedExternally\n var icon: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun NotificationAction(action: String?, title:
String?, icon: String? = undefined): NotificationAction {\n val o = js("{}")\n o["action"] = action\n
o["title"] = title\n o["icon"] = icon\n return o\n}\n\npublic external interface GetNotificationOptions {\n var
tag: String? /* = "" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag: String? = ""):
GetNotificationOptions {\n val o = js("{}")\n o["tag"] = tag\n return o\n}\n\n/**\n * Exposes the
JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\n
*/\n\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :
ExtendableEvent {\n open val notification: Notification\n open val action: String\n\n companion object {\n
val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface NotificationEventInit : ExtendableEventInit {\n
var notification: Notification?\n get() = definedExternally\n set(value) = definedExternally\n var action:
String? /* = "" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun NotificationEventInit(notification:
Notification?, action: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): NotificationEventInit {\n val o = js("{}")\n o["notification"] = notification\n o["action"] =
action\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/* please, don't implement this interface!\n
*/\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface
NotificationPermission {\n companion object\n}\n\npublic inline val
NotificationPermission.Companion.DEFAULT: NotificationPermission get() =
"default".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.DENIED: NotificationPermission get() =
"denied".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.GRANTED: NotificationPermission get() =
"granted".asDynamic().unsafeCast<NotificationPermission>()\n\n/* please, don't implement this interface!\n
*/\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface
NotificationDirection {\n companion object\n}\n\npublic inline val NotificationDirection.Companion.AUTO:
NotificationDirection get() = "auto".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.LTR: NotificationDirection get() =
"ltr".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.RTL: NotificationDirection get() =
"rtl".asDynamic().unsafeCast<NotificationDirection>()"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n
*/\n\npublic external

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abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker,
UnionClientOrMessagePortOrServiceWorker {\n open val scriptURL: String\n open val state:
ServiceWorkerState\n open var onstatechange: ((Event) -> dynamic)?\n fun postMessage(message: Any?,
transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to
Kotlin\n * \npublic external abstract class ServiceWorkerRegistration : EventTarget {\n open val installing:
ServiceWorker?\n open val waiting: ServiceWorker?\n open val active: ServiceWorker?\n open val scope:
String\n open var onupdatefound: ((Event) -> dynamic)?\n open val APISpace: dynamic\n fun update():
Promise<Unit>\n fun unregister(): Promise<Boolean>\n fun showNotification(title: String, options:
NotificationOptions = definedExternally): Promise<Unit>\n fun getNotifications(filter: GetNotificationOptions =
definedExternally): Promise<Array<Notification>>\n fun methodName(): Promise<dynamic>\n}\n\n/**\n *
Exposes the JavaScript
[ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n
*\npublic external abstract class ServiceWorkerContainer : EventTarget {\n open val controller:
ServiceWorker?\n open val ready: Promise<ServiceWorkerRegistration>\n open var oncontrollerchange:
((Event) -> dynamic)?\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun register(scriptURL: String,
options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n fun
getRegistration(clientURL: String = definedExternally): Promise<Any?>\n fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n fun startMessages()\n}\n\npublic external interface
RegistrationOptions {\n var scope: String?\n get() = definedExternally\n set(value) = definedExternally\n
var type: WorkerType? /* = WorkerType.CLASSIC */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun RegistrationOptions(scope: String? =
undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\n val o = js("{}")\n o["scope"] = scope\n o["type"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to
Kotlin\n * \npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict:
ServiceWorkerMessageEventInit = definedExternally) : Event {\n open val data: Any?\n open val origin:
String\n open val lastEventId: String\n open val source: UnionMessagePortOrServiceWorker?\n open val
ports: Array<out MessagePort>?\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n var data: Any?\n get() =
definedExternally\n set(value) = definedExternally\n var origin: String?\n get() = definedExternally\n
set(value) = definedExternally\n var lastEventId: String?\n get() = definedExternally\n set(value) =
definedExternally\n var source: UnionMessagePortOrServiceWorker?\n get() = definedExternally\n
set(value) = definedExternally\n var ports: Array<MessagePort>?\n get() = definedExternally\n set(value)
= definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ServiceWorkerMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n val o =
js("{}")\n o["data"] = data\n o["origin"] = origin\n o["lastEventId"] = lastEventId\n o["source"] =
source\n o["ports"] = ports\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to
Kotlin\n * \npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n open val clients:
Clients\n open val registration: ServiceWorkerRegistration\n open var oninstall: ((Event) -> dynamic)?\n open
var onactivate: ((Event) -> dynamic)?\n open var onfetch: ((FetchEvent) -> dynamic)?\n open var
onforeignfetch: ((Event) -> dynamic)?\n open var onmessage: ((MessageEvent) -> dynamic)?\n open var
onnotificationclick: ((NotificationEvent) -> dynamic)?\n open var onnotificationclose: ((NotificationEvent) ->

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dynamic)?\n open var onfunctionalevent: ((Event) -> dynamic)?\n fun skipWaiting():
Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n */\npublic external abstract class Client :
UnionClientOrMessagePortOrServiceWorker {\n open val url: String\n open val frameType: FrameType\n
open val id: String\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n
* Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to
Kotlin\n */\npublic external abstract class WindowClient : Client {\n open val visibilityState: dynamic\n open
val focused: Boolean\n fun focus(): Promise<WindowClient>\n fun navigate(url: String):
Promise<WindowClient>\n}\n\n/**\n * Exposes the JavaScript
[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n */\npublic external abstract class
Clients {\n fun get(id: String): Promise<Any?>\n fun matchAll(options: ClientQueryOptions =
definedExternally): Promise<Array<Client>>\n fun openWindow(url: String): Promise<WindowClient?>\n fun
claim(): Promise<Unit>\n}\n\npublic external interface ClientQueryOptions {\n var includeUncontrolled:
Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var type:
ClientType? /* = ClientType.WINDOW */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ClientQueryOptions(includeUncontrolled:
Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {\n val o = js("{}")\n
o["includeUncontrolled"] = includeUncontrolled\n o["type"] = type\n return o\n}\n\n/**\n * Exposes the
JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n
*/\npublic external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit =
definedExternally) : Event {\n fun waitUntil(f: Promise<Any?>)\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface ExtendableEventInit : EventInit\n\n@kotlin.internal.InlineOnly\npublic
inline fun ExtendableEventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): ExtendableEventInit {\n val o = js("{}")\n o["bubbles"] = bubbles\n o["cancelable"] =
cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n */\npublic external open
class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n fun
registerForeignFetch(options: ForeignFetchOptions)\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface ForeignFetchOptions {\n var scopes: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n var origins: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {\n val o =
js("{}")\n o["scopes"] = scopes\n o["origins"] = origins\n return o\n}\n\n/**\n * Exposes the JavaScript
[FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\n */\npublic external open class
FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\n open val request: Request\n open
val clientId: String?\n open val isReload: Boolean\n fun respondWith(r: Promise<Response>)\n\n companion
object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface FetchEventInit : ExtendableEventInit {\n var
request: Request?\n get() = definedExternally\n set(value) = definedExternally\n var clientId: String? /* =
null */\n get() = definedExternally\n set(value) = definedExternally\n var isReload: Boolean? /* = false
*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean?
= false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {\n val o = js("{}")\n
o["request"] = request\n o["clientId"] = clientId\n o["isReload"] = isReload\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\npublic external open class
ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\n open val request:

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Request\n open val origin: String\n fun respondWith(r: Promise<ForeignFetchResponse>)\n\n companion
object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n\n\npublic external interface ForeignFetchEventInit : ExtendableEventInit {\n
var request: Request?\n get() = definedExternally\n set(value) = definedExternally\n var origin: String? /*
= \"null\" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchEventInit(request: Request?,
origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
ForeignFetchEventInit {\n val o = js(\"({})\")\n o[\"request\"] = request\n o[\"origin\"] = origin\n
o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return
o\n}\n\n\npublic external interface ForeignFetchResponse {\n var response: Response?\n get() =
definedExternally\n set(value) = definedExternally\n var origin: String?\n get() = definedExternally\n
set(value) = definedExternally\n var headers: Array<String>?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchResponse(response:
Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\n val o =
js(\"({})\")\n o[\"response\"] = response\n o[\"origin\"] = origin\n o[\"headers\"] = headers\n return
o\n}\n\n/**\n * Exposes the JavaScript
[ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\n
*/\n\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit =
definedExternally) : ExtendableEvent {\n open val data: Any?\n open val origin: String\n open val lastEventId:
String\n open val source: UnionClientOrMessagePortOrServiceWorker?\n open val ports: Array<out
MessagePort>?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\n\npublic external interface
ExtendableMessageEventInit : ExtendableEventInit {\n var data: Any?\n get() = definedExternally\n
set(value) = definedExternally\n var origin: String?\n get() = definedExternally\n set(value) =
definedExternally\n var lastEventId: String?\n get() = definedExternally\n set(value) =
definedExternally\n var source: UnionClientOrMessagePortOrServiceWorker?\n get() = definedExternally\n
set(value) = definedExternally\n var ports: Array<MessagePort>?\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ExtendableMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined,
source: UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit
{\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"origin\"] = origin\n o[\"lastEventId\"] = lastEventId\n
o[\"source\"] = source\n o[\"ports\"] = ports\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\n */\n\npublic external abstract class Cache
{\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n fun
matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Response>>\n fun add(request: dynamic): Promise<Unit>\n fun addAll(requests:
Array<dynamic>): Promise<Unit>\n fun put(request: dynamic, response: Response): Promise<Unit>\n fun
delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\n fun
keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Request>>\n}\n\n\npublic external interface CacheQueryOptions {\n var ignoreSearch: Boolean? /*
= false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreMethod: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreVary: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var cacheName: String?\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
CacheQueryOptions(ignoreSearch: Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? =
false, cacheName: String? = undefined): CacheQueryOptions {\n val o = js(\"({})\")\n o[\"ignoreSearch\"] =

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ignoreSearch\n o["ignoreMethod"] = ignoreMethod\n o["ignoreVary"] = ignoreVary\n o["cacheName"] =
cacheName\n return o\n}\n\npublic external interface CacheBatchOperation {\n var type: String?\n get() =
definedExternally\n set(value) = definedExternally\n var request: Request?\n get() = definedExternally\n
set(value) = definedExternally\n var response: Response?\n get() = definedExternally\n set(value) =
definedExternally\n var options: CacheQueryOptions?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CacheBatchOperation(type: String? =
undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? =
undefined): CacheBatchOperation {\n val o = js("{}")\n o["type"] = type\n o["request"] = request\n
o["response"] = response\n o["options"] = options\n return o\n}\n\n/**\n * Exposes the JavaScript
[CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n */\npublic external
abstract class CacheStorage {\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally):
Promise<Any?>\n fun has(cacheName: String): Promise<Boolean>\n fun open(cacheName: String):
Promise<Cache>\n fun delete(cacheName: String): Promise<Boolean>\n fun keys():
Promise<Array<String>>\n}\n\npublic external open class FunctionalEvent : ExtendableEvent {\n companion
object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic
external interface UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
ServiceWorkerState {\n companion object\n}\n\npublic inline val ServiceWorkerState.Companion.INSTALLING:
ServiceWorkerState get() = "installing".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =
"installed".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
"activating".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
"activated".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() =
"redundant".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface FrameType {\n
companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY: FrameType get() =
"auxiliary".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.TOP_LEVEL:
FrameType get() = "top-level".asDynamic().unsafeCast<FrameType>()\n\npublic inline val
FrameType.Companion.NESTED: FrameType get() = "nested".asDynamic().unsafeCast<FrameType>()\n\npublic
inline val FrameType.Companion.NONE: FrameType get() =
"none".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface ClientType {\n
companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType get() =
"window".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.WORKER:
ClientType get() = "worker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val
ClientType.Companion.SHAREDWORKER: ClientType get() =
"sharedworker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL:
ClientType get() = "all".asDynamic().unsafeCast<ClientType>()"}\n\n/* Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.xr\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.encryptedmedia.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.mediasource.*\nimport

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org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\n\n/**\n * Exposes the JavaScript
[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to Kotlin\n\n */\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n open var onloadstart:
((ProgressEvent) -> dynamic)?\n open var onprogress: ((ProgressEvent) -> dynamic)?\n open var onabort:
((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n open var onload: ((Event) -> dynamic)?\n
open var ontimeout: ((Event) -> dynamic)?\n open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external
abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript
[XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n\n */\npublic
external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n var onreadystatechange: ((Event) ->
dynamic)?\n open val readyState: Short\n var timeout: Int\n var withCredentials: Boolean\n open val upload:
XMLHttpRequestUpload\n open val responseURL: String\n open val status: Short\n open val statusText:
String\n var responseType: XMLHttpRequestResponseType\n open val response: Any?\n open val
responseText: String\n open val responseXML: Document?\n fun open(method: String, url: String)\n fun
open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? =
definedExternally)\n fun setRequestHeader(name: String, value: String)\n fun send(body: dynamic =
definedExternally)\n fun abort()\n fun getResponseHeader(name: String): String?\n fun
getAllResponseHeaders(): String\n fun overrideMimeType(mime: String)\n\n companion object {\n val
UNSENT: Short\n val OPENED: Short\n val HEADERS_RECEIVED: Short\n val LOADING:
Short\n val DONE: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n\n */\npublic external open class
FormData(form: HTMLFormElement = definedExternally) {\n fun append(name: String, value: String)\n fun
append(name: String, value: Blob, filename: String = definedExternally)\n fun delete(name: String)\n fun
get(name: String): dynamic\n fun getAll(name: String): Array<dynamic>\n fun has(name: String): Boolean\n
fun set(name: String, value: String)\n fun set(name: String, value: Blob, filename: String =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\n\n */\npublic external open
class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {\n open val
lengthComputable: Boolean\n open val loaded: Number\n open val total: Number\n\n companion object {\n
 val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface ProgressEventInit : EventInit {\n var
lengthComputable: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n
var loaded: Number? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var total:
Number? /* = 0 */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ProgressEventInit(lengthComputable:
Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): ProgressEventInit {\n val o = js("{}")\n o["lengthComputable"] =
lengthComputable\n o["loaded"] = loaded\n o["total"] = total\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/* please, don't implement this
interface! *\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
XMLHttpRequestResponseType {\n companion object\n}\n\npublic inline val
XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() =
"\n".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() =
"arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() =
"blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val

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XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =
`"document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() =
`"json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val
XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() =
`"text".asDynamic().unsafeCast<XMLHttpRequestResponseType>()`,`\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Creates a Char with the
specified [code], or throws an exception if the [code] is out of
`Char.MIN_VALUE.code..Char.MAX_VALUE.code`. \n * \n * If the program that calls this function is written in a
way that only valid [code] is passed as the argument,\n * using the overload that takes a [UShort] argument is
preferable (`Char(intValue.toUShort())`).\n * That overload doesn't check validity of the argument, and may
improve program performance when the function is called routinely inside a loop.\n * \n * @sample
samples.text.Chars.charFromCode\n
*/\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@ExperimentalStdlibApi\n@SinceKotlin("1.4")\n@kotlin.inter
nal.InlineOnly\npublic inline fun Char(code: Int): Char {\n if (code < Char.MIN_VALUE.code || code >
Char.MAX_VALUE.code) {\n throw IllegalArgumentException("Invalid Char code: $code")\n }\n return
Char(code.toUShort())\n}\n\n/**\n * Creates a Char with the specified [code].\n * \n * @sample
samples.text.Chars.charFromCode\n
*/\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@ExperimentalStdlibApi\n@SinceKotlin("1.4")\n@Suppress("
NO_ACTUAL_FOR_EXPECT")\npublic expect fun Char(code: UShort): Char\n\n/**\n * Returns the code of this
Char.\n * \n * Code of a Char is the value it was constructed with, and the UTF-16 code unit corresponding to this
Char.\n * \n * @sample samples.text.Chars.code\n
*/\n\n@ExperimentalStdlibApi\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline val Char.code: Int
get() = this.toInt()\n`,`\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated
annotation class is a marker of an experimental API.\n * \n * Any declaration annotated with that marker is
considered an experimental declaration\n * and its call sites should accept the experimental aspect of it either by
using [UseExperimental],\n * or by being annotated with that marker themselves, effectively causing further
propagation of that experimental aspect.\n * \n * This class is deprecated in favor of a more general approach
provided by [RequiresOptIn]/[OptIn].\n
*/\n\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.2")\n@RequireKotlin("1.2.50
`,`", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n@Deprecated("Please use RequiresOptIn
instead.")\npublic annotation class Experimental(val level: Level = Level.ERROR) {\n /**\n * Severity of the
diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental
aspect\n * of that API either by using [UseExperimental] or by being annotated with the corresponding marker
annotation.\n * \n * public enum class Level {\n * /** Specifies that a warning should be reported on incorrect
usages of this experimental API. */\n * WARNING,\n * /** Specifies that an error should be reported on
incorrect usages of this experimental API. */\n * ERROR,\n * }\n}\n\n/**\n * Allows to use experimental API
denoted by the given markers in the annotated file, declaration, or expression.\n * \n * If a declaration is annotated with
[UseExperimental], its usages are **not** required to opt-in to that experimental API.\n * \n * This class is
deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].\n */\n\n@Target(\n CLASS,
PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,
PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,

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TYPEALIAS\n\n@Retention(SOURCE)\n@SinceKotlin("1.2")\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\n@Deprecated("Please use OptIn instead.",
ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))\npublic annotation class UseExperimental(\n vararg val
markerClass: KClass<out Annotation>\n)\n\n\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
TYPEALIAS)\n@Retention(BINARY)\ninternal annotation class WasExperimental(\n vararg val markerClass:
KClass<out Annotation>\n)\n\n", "package kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * This
annotation marks the standard library API that is considered experimental and is not subject to the\n * [general
compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the
standard library:\n * the behavior of such API may be changed or the API may be removed completely in any
further release.\n * \n * > Beware using the annotated API especially if you're developing a library, since your library
might become binary incompatible\n * with the future versions of the standard library.\n * \n * Any usage of a
declaration annotated with `@ExperimentalStdlibApi` must be accepted either by\n * annotating that usage with the
[OptIn] annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)`,\n * or by using the compiler argument `-Xopt-
in=kotlin.ExperimentalStdlibApi`. \n * \n * \n * @Suppress("DEPRECATION")\n * @Experimental(level =
Experimental.Level.ERROR)\n * @RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n * @Retention(AnnotationRetention.BINARY)\n * @Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS\n)\n\n@MustBeDocumented\n@SinceKotlin("1.3")\npublic annotation class
ExperimentalStdlibApi\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * \n * \n * package kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\n\nimport
kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Allows to infer generic type arguments of a function
from the calls in the annotated function parameter of that function.\n * \n * When this annotation is placed on a
generic function parameter of a function,\n * it enables to infer the type arguments of that generic function from the
lambda body passed to that parameter.\n * \n * The calls that affect inference are either members of the receiver type
of an annotated function parameter or\n * extensions for that type. The extensions must be themselves annotated
with `@BuilderInference`. \n * \n * Example: we declare\n * ```\n * fun <T> sequence(@BuilderInference block:
suspend SequenceScope<T>().() -> Unit): Sequence<T>\n * ```\n * and use it like\n * ```\n * val result = sequence {
yield("result") }\n * ```\n * Here the type argument of the resulting sequence is inferred to `String` from\n * the
argument of the [SequenceScope.yield] function, that is called inside the lambda passed to [sequence].\n * \n * Note:
this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n * \n * \n * \n * @Target(VALUE_PARAMETER, FUNCTION,
PROPERTY)\n * @Retention(AnnotationRetention.BINARY)\n * @SinceKotlin("1.3")\n * @ExperimentalTypeInferenc
e\n * public annotation class BuilderInference\n\n/**\n * Enables overload selection based on the type of the value
returned from lambda argument.\n * \n * When two or more function overloads have otherwise the same parameter
lists that differ only in the return type\n * of a functional parameter, this annotation enables overload selection by the
type of the value returned from\n * the lambda function passed to this functional parameter.\n * \n * Example:\n *
``` \n * @OverloadResolutionByLambdaReturnType\n * fun create(intProducer: () -> Int): Int\n * \n * fun
create(doubleProducer: () -> Double): Double\n * \n * val newValue = create { 3.14 }\n * ```\n * \n * The annotation
being applied to one of overloads allows to resolve this ambiguity by analyzing what value is returned\n * from the
lambda function.\n * \n * This annotation is also used to discriminate the annotated overloads in case if overload
selection still cannot\n * choose one of them even taking in account the result of lambda parameter analysis. In that
case a warning is reported.\n * \n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how
to opt-in for it.\n * \n * \n * \n * @Target(FUNCTION)\n * @Retention(AnnotationRetention.BINARY)\n * @SinceKotlin("1.4")\n * @Experimental
TypeInference\n * public annotation class OverloadResolutionByLambdaReturnType", "/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the

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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\n\n/**\n * The experimental multiplatform support API marker.\n */\n *
Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by\n * annotating
that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,\n * or by using the
compiler argument `-Xopt-in=kotlin.ExperimentalMultiplatform`.\n
*\n\n@Suppress("DEPRECATION")\n@Experimental\n@RequiresOptIn\n@MustBeDocumented\n@Target(\n
CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n
VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n
PROPERTY_SETTER,\n
TYPEALIAS)\n\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic annotation class ExperimentalMultiplatform\n\n/**\n *
Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\n */\n *
This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as
`optional`.\n */\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional
annotations can only be used\n * to annotate something, not as types in signatures. If an optional annotation has no
corresponding actual class on a platform,\n * the annotation entries where it's used are simply erased when
compiling code on that platform.\n */\n * Note: this annotation is experimental, see [ExperimentalMultiplatform] on
how to opt-in for it.\n
*\n\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatform\n\n@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic
annotation class OptionalExpectation\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated
annotation class is a marker of an API that requires an explicit opt-in.\n */\n * Call sites of any declaration annotated
with that marker should opt in to the API either by using [OptIn],\n * or by being annotated with that marker
themselves, effectively causing further propagation of the opt-in requirement.\n */\n * This class requires opt-in itself
and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n */\n * @property message
message to be reported on usages of API without an explicit opt-in, or empty string for the default message.\n */
\n    The default message is: `This declaration is experimental and its usage should be marked with 'Marker`\n *
or '@OptIn(Marker::class)`, where `Marker` is the opt-in requirement marker.\n * @property level specifies
how usages of API without an explicit opt-in are reported in code.\n
*\n\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70
", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic annotation class RequiresOptIn(\n
val message: String = "",\n val level: Level = Level.ERROR)\n\n /**\n * Severity of the diagnostic that
should be reported on usages which did not explicitly opted into\n * the API either by using [OptIn] or by being
annotated with the corresponding marker annotation.\n */\n\n public enum class Level {\n    /** Specifies that a
warning should be reported on incorrect usages of this API. */\n    WARNING,\n\n    /** Specifies that an error
should be reported on incorrect usages of this API. */\n    ERROR,\n }
\n\n /**\n * Allows to use the API denoted by the given markers in the annotated file, declaration, or expression.\n */
\n * If a declaration is annotated with [OptIn], its usages are **not** required to opt in to that API.\n */\n *
This class requires opt-in itself and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n
*\n\n@Target(\n CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER,
PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS)\n\n@Retention(SOURCE)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70", versionKind =

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RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class OptIn(\n    vararg val markerClass:
KClass<out Annotation>\n)\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\npackage kotlin.collections\n\nimport kotlin.js.JsName\n\n/**\n * Provides a skeletal
implementation of the read-only [Collection] interface.\n */\n * @param E the type of elements contained in the
collection. The collection is covariant in its element type.\n */\n@SinceKotlin("1.1")\npublic abstract class
AbstractCollection<out E> protected constructor() : Collection<E> {\n    abstract override val size: Int\n    abstract
override fun iterator(): Iterator<E>\n\n    override fun contains(element: @UnsafeVariance E): Boolean = any { it
== element }\n\n    override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean =\n        elements.all { contains(it) } // use when js will support bound refs: elements.all(this::contains)\n\n    override fun
isEmpty(): Boolean = size == 0\n\n    override fun toString(): String = joinToString(", ", "[", "]") {\n        if (it
=== this) "(this Collection)" else it.toString()\n    }\n\n    /**\n     * Returns new array of type `Array<Any?>` with
the elements of this collection.\n     */\n    @JsName("toArray")\n    protected open fun toArray(): Array<Any?> =
copyToArrayImpl(this)\n\n    /**\n     * Fills the provided [array] or creates new array of the same type\n     * and
fills it with the elements of this collection.\n     */\n    protected open fun <T> toArray(array: Array<T>): Array<T>
= copyToArrayImpl(this, array)\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\npackage kotlin.collections\n\nprivate enum class State {\n    Ready,\n    NotReady,\n    Done,\n    Failed\n}\n\n/**\n * A base class to simplify implementing iterators so that
implementations only have to implement [computeNext]\n * to implement the iterator, calling [done] when the
iteration is complete.\n */\npublic abstract class AbstractIterator<T> : Iterator<T> {\n    private var state =
State.NotReady\n    private var nextValue: T? = null\n\n    override fun hasNext(): Boolean {\n        require(state !=
State.Failed)\n        return when (state) {\n            State.Done -> false\n            State.Ready -> true\n            else ->
tryToComputeNext()\n        }\n    }\n\n    override fun next(): T {\n        if (!hasNext()) throw
NoSuchElementException()\n        state = State.NotReady\n        @Suppress("UNCHECKED_CAST")\n        return nextValue as T\n    }\n\n    private fun tryToComputeNext(): Boolean {\n        state = State.Failed\n        computeNext()\n        return state == State.Ready\n    }\n\n    /**\n     * Computes the next item in the iterator.\n     */\n    * This callback method should call one of these two methods:\n     * * [setNext] with the next value of
the iteration\n     * * [done] to indicate there are no more elements\n     * * Failure to call either method will
result in the iteration terminating with a failed state\n     */\n    abstract protected fun computeNext(): Unit\n\n    /**\n     * Sets the next value in the iteration, called from the [computeNext] function\n     */\n    protected fun
setNext(value: T): Unit {\n        nextValue = value\n        state = State.Ready\n    }\n\n    /**\n     * Sets the state to
done so that the iteration terminates.\n     */\n    protected fun done() {\n        state = State.Done\n    }\n}\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/**\n * Based on
GWT AbstractList\n * Copyright 2007 Google Inc.\n */\npackage kotlin.collections\n\n/**\n * Provides a skeletal
implementation of the read-only [List] interface.\n */\n * This class is intended to help implementing read-only lists
so it doesn't support concurrent modification tracking.\n */\n * @param E the type of elements contained in the list.
The list is covariant in its element type.\n */\n@SinceKotlin("1.1")\npublic abstract class AbstractList<out E>
protected constructor() : AbstractCollection<E>(), List<E> {\n    abstract override val size: Int\n    abstract override
fun get(index: Int): E\n\n    override fun iterator(): Iterator<E> = IteratorImpl()\n\n    override fun indexOf(element:
@UnsafeVariance E): Int = indexOfFirst { it == element }\n\n    override fun lastIndexOf(element:
@UnsafeVariance E): Int = indexOfLast { it == element }\n\n    override fun listIterator(): ListIterator<E> =
ListIteratorImpl(0)\n\n    override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)\n\n    override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)\n\n    private class
SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) : AbstractList<E>(),
RandomAccess {\n        private var _size: Int = 0\n        init {\n            checkRangeIndexes(fromIndex, toIndex,
list.size)\n            this._size = toIndex - fromIndex\n        }\n\n        override fun get(index: Int): E {\n

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checkElementIndex(index, _size)\n\n    return list[fromIndex + index]\n\n    }\n\n    override val size: Int
get() = _size\n\n    }\n\n    /**\n     * Compares this list with other list instance with the ordered structural equality.\n
*\n     * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same
order.\n     */\n    override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is
List<*>) return false\n\n        return orderedEquals(this, other)\n\n    }\n\n    /**\n     * Returns the hash code value for
this list.\n     */\n    override fun hashCode(): Int = orderedHashCode(this)\n\n    private open inner class IteratorImpl
: Iterator<E> {\n        /** the index of the item that will be returned on the next call to [next]`()\n     */\n        protected
var index = 0\n\n        override fun hasNext(): Boolean = index < size\n\n        override fun next(): E {\n            if
(!hasNext()) throw NoSuchElementException()\n            return get(index++)\n        }\n\n    }\n\n    /**\n     *
Implementation of [ListIterator] for abstract lists.\n     */\n    private open inner class ListIteratorImpl(index: Int) :
IteratorImpl(), ListIterator<E> {\n        init {\n            checkPositionIndex(index, this@AbstractList.size)\n
this.index = index\n        }\n\n        override fun hasPrevious(): Boolean = index > 0\n\n        override fun
nextIndex(): Int = index\n\n        override fun previous(): E {\n            if (!hasPrevious()) throw
NoSuchElementException()\n            return get(--index)\n        }\n\n        override fun previousIndex(): Int = index -
1\n    }\n\n    internal companion object {\n        internal fun checkElementIndex(index: Int, size: Int) {\n            if
(index < 0 || index >= size) {\n                throw IndexOutOfBoundsException("index: $index, size: $size")\n            }\n
}\n\n        internal fun checkPositionIndex(index: Int, size: Int) {\n            if (index < 0 || index > size) {\n
                throw IndexOutOfBoundsException("index: $index, size: $size")\n            }\n        }\n\n        internal fun
checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\n            if (fromIndex < 0 || toIndex > size) {\n
                throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex, size: $size")\n            }\n
}\n\n        if (fromIndex > toIndex) {\n            throw IllegalArgumentException("fromIndex: $fromIndex > toIndex:
$toIndex")\n        }\n\n        internal fun checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\n
            if (startIndex < 0 || endIndex > size) {\n                throw IndexOutOfBoundsException("startIndex:
$startIndex, endIndex: $endIndex, size: $size")\n            }\n            if (startIndex > endIndex) {\n                throw
IllegalArgumentException("startIndex: $startIndex > endIndex: $endIndex")\n            }\n        }\n\n        internal
fun orderedHashCode(c: Collection<*>): Int {\n            var hashCode = 1\n            for (e in c) {\n
                hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\n            }\n            return hashCode\n        }\n\n        internal fun
orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {\n            if (c.size != other.size) return false\n\n
            val otherIterator = other.iterator()\n            for (elem in c) {\n                val elemOther = otherIterator.next()\n
                if (elem != elemOther) {\n                    return false\n                }\n            }\n            return true\n        }\n
}\n\n    "/*\n     * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\n     *
Based on GWT AbstractMap\n     * Copyright 2007 Google Inc.\n     */\n\npackage kotlin.collections\n\n/**\n     * Provides
a skeletal implementation of the read-only [Map] interface.\n     */\n     * The implementor is required to implement
[entries] property, which should return read-only set of map entries.\n     */\n     * @param K the type of map keys. The
map is invariant in its key type.\n     * @param V the type of map values. The map is covariant in its value type.\n
*/\n\n@SinceKotlin("1.1")\npublic abstract class AbstractMap<K, out V> protected constructor() : Map<K, V>
{\n\n    override fun containsKey(key: K): Boolean {\n        return implFindEntry(key) != null\n    }\n\n    override
fun containsValue(value: @UnsafeVariance V): Boolean = entries.any { it.value == value }\n\n    internal fun
containsEntry(entry: Map.Entry<*, *>): Boolean {\n        // since entry comes from @UnsafeVariance parameters it
can be virtually anything\n        if (entry !is Map.Entry<*, *>) return false\n        val key = entry.key\n        val value
= entry.value\n        val ourValue = get(key)\n        if (value != ourValue) {\n            return false\n        }\n        //
Perhaps it was null and we don't contain the key?\n        if (ourValue == null && !containsKey(key)) {\n            return
false\n        }\n        return true\n    }\n\n    /**\n     * Compares this map with other instance with the
ordered structural equality.\n     */\n     * @return true, if [other] instance is a [Map] of the same size, all entries of
which are contained in the [entries] set of this map.\n     */\n    override fun equals(other: Any?): Boolean {\n        if
(other === this) return true\n        if (other !is Map<*, *>) return false\n        if (size != other.size) return false\n
        return other.entries.all { containsEntry(it) }\n    }\n\n    override operator fun get(key: K): V? =

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implFindEntry(key)?.value\n\n\n /**\n * Returns the hash code value for this map.\n * It is the same as
the hashCode of [entries] set.\n */\n override fun hashCode(): Int = entries.hashCode()\n\n override fun
isEmpty(): Boolean = size == 0\n override val size: Int get() = entries.size\n\n /**\n * Returns a read-only
[Set] of all keys in this map.\n * Accessing this property first time creates a keys view from [entries].\n *
All subsequent accesses just return the created instance.\n */\n override val keys: Set<K>\n get() {\n
if (_keys == null) {\n     _keys = object : AbstractSet<K>() {\n         override operator fun
contains(element: K): Boolean = containsKey(element)\n\n         override operator fun iterator(): Iterator<K>
{\n             val entryIterator = entries.iterator()\n             return object : Iterator<K> {\n
override fun hasNext(): Boolean = entryIterator.hasNext()\n\n             override fun next(): K =
entryIterator.next().key\n\n             }\n\n         }\n\n         override val size: Int get() =
this@AbstractMap.size\n\n     }\n\n     return _keys!!\n }\n\n @kotlin.jvm.Volatile\n private var _keys: Set<K>? = null\n\n override fun toString(): String = entries.joinToString(", ", "\n", "\n") {\n
toString(it) }\n\n private fun toString(entry: Map.Entry<K, V>): String = toString(entry.key) + "\n" +
toString(entry.value)\n\n private fun toString(o: Any?): String = if (o === this) "(this Map)" else o.toString()\n\n
/**\n * Returns a read-only [Collection] of all values in this map.\n * Accessing this property first time
creates a values view from [entries].\n * All subsequent accesses just return the created instance.\n */\n
override val values: Collection<V>\n get() {\n     if (_values == null) {\n         _values = object :
AbstractCollection<V>() {\n             override operator fun contains(element: @UnsafeVariance V): Boolean =
containsValue(element)\n\n             override operator fun iterator(): Iterator<V> {\n                 val
entryIterator = entries.iterator()\n                 return object : Iterator<V> {\n                     override fun
hasNext(): Boolean = entryIterator.hasNext()\n\n                     override fun next(): V = entryIterator.next().value\n
\n                     }\n\n                 }\n\n             override val size: Int get() = this@AbstractMap.size\n\n
\n             return _values!!\n }\n\n @kotlin.jvm.Volatile\n private var _values: Collection<V>? = null\n\n
private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n\n internal
companion object {\n\n     internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?:
0) xor (value?.hashCode() ?: 0) }\n\n     internal fun entryToString(e: Map.Entry<*, *>): String = with(e) {\n
"\$key=\$value" }\n\n     internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n         if (other !is
Map.Entry<*, *>) return false\n         return e.key == other.key && e.value == other.value\n     }\n\n }\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [Set] interface.\n * This
class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.\n
*/\n * @param E the type of elements contained in the set. The set is covariant in its element type.\n
*/\n @SinceKotlin("1.1")\n public abstract class AbstractSet<out E> protected constructor() :
AbstractCollection<E>(), Set<E> {\n\n     /**\n * Compares this set with other set instance with the unordered
structural equality.\n * @return true, if [other] instance is a [Set] of the same size, all elements of which are
contained in this set.\n */\n override fun equals(other: Any?): Boolean {\n     if (other === this) return true\n
if (other !is Set<*>) return false\n     return setEquals(this, other)\n }\n\n /**\n * Returns the hash code
value for this set.\n */\n override fun hashCode(): Int = unorderedHashCode(this)\n\n internal companion
object {\n     internal fun unorderedHashCode(c: Collection<*>): Int {\n         var hashCode = 0\n         for
(element in c) {\n             hashCode += (element?.hashCode() ?: 0)\n         }\n         return hashCode\n
}\n\n     internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\n         if (c.size != other.size) return false\n
return c.containsAll(other)\n     }\n }\n\n"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Resizable-array implementation
of the deque data structure.\n * The name deque is short for "double ended queue" and is usually pronounced
"deck".\n * The collection provide methods for convenient access to the both ends.\n * It also implements
[MutableList] interface and supports efficient get/set operations by index.\n
*/

```



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*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^npublic class ArrayDeque<E> :
AbstractMutableList<E> {^n private var head: Int = 0^n private var elementData: Array<Any?>^n^n override
var size: Int = 0^n private set^n /**^n * Constructs an empty deque with specified [initialCapacity], or
throws [IllegalArgumentException] if [initialCapacity] is negative.^n *^/n public constructor(initialCapacity:
Int) {^n elementData = when {^n initialCapacity == 0 -> emptyElementData^n initialCapacity > 0 -
> arrayOfNulls(initialCapacity)^n else -> throw IllegalArgumentException("Illegal Capacity:
$initialCapacity")^n }^n }^n /**^n * Constructs an empty deque.^n *^/n public constructor() {^n
elementData = emptyElementData^n }^n /**^n * Constructs a deque that contains the same elements as the
specified [elements] collection in the same order.^n *^/n public constructor(elements: Collection<E>) {^n
elementData = elements.toArray()^n size = elementData.size^n if (elementData.isEmpty())
elementData = emptyElementData^n }^n /**^n * Ensures that the capacity of this deque is at least equal to
the specified [minCapacity].^n *^/n * If the current capacity is less than the [minCapacity], a new backing
storage is allocated with greater capacity.^n * Otherwise, this method takes no action and simply returns.^n *^/n
private fun ensureCapacity(minCapacity: Int) {^n if (minCapacity < 0) throw IllegalStateException("Deque is
too big.") // overflow^n if (minCapacity <= elementData.size) return^n if (elementData ==
emptyElementData) {^n elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))^n
return^n }^n val newCapacity = newCapacity(elementData.size, minCapacity)^n
copyElements(newCapacity)^n }^n /**^n * Creates a new array with the specified [newCapacity] size and
copies elements in the [elementData] array to it.^n *^/n private fun copyElements(newCapacity: Int) {^n val
newElements = arrayOfNulls<Any?>(newCapacity)^n elementData.copyInto(newElements, 0, head,
elementData.size)^n elementData.copyInto(newElements, elementData.size - head, 0, head)^n head = 0^n
elementData = newElements^n }^n @kotlin.internal.InlineOnly^n private inline fun
internalGet(internalIndex: Int): E {^n @Suppress("UNCHECKED_CAST")^n return
elementData[internalIndex] as E^n }^n private fun positiveMod(index: Int): Int = if (index >=
elementData.size) index - elementData.size else index^n private fun negativeMod(index: Int): Int = if (index < 0)
index + elementData.size else index^n @kotlin.internal.InlineOnly^n private inline fun internalIndex(index:
Int): Int = positiveMod(head + index)^n private fun incremented(index: Int): Int = if (index ==
elementData.lastIndex) 0 else index + 1^n private fun decremented(index: Int): Int = if (index == 0)
elementData.lastIndex else index - 1^n override fun isEmpty(): Boolean = size == 0^n /**^n * Returns the
first element, or throws [NoSuchElementException] if this deque is empty.^n *^/n public fun first(): E = if
(isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(head)^n /**^n *
Returns the first element, or `null` if this deque is empty.^n *^/n public fun firstOrNull(): E? = if (isEmpty()) null
else internalGet(head)^n /**^n * Returns the last element, or throws [NoSuchElementException] if this deque
is empty.^n *^/n public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")
else internalGet(internalIndex(lastIndex))^n /**^n * Returns the last element, or `null` if this deque is empty.^n
*^/n public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))^n /**^n *
Prepends the specified [element] to this deque.^n *^/n public fun addFirst(element: E) {^n
ensureCapacity(size + 1)^n head = decremented(head)^n elementData[head] = element^n size += 1^n
}^n /**^n * Appends the specified [element] to this deque.^n *^/n public fun addLast(element: E) {^n
ensureCapacity(size + 1)^n elementData[internalIndex(size)] = element^n size += 1^n }^n /**^n *
Removes the first element from this deque and returns that removed element, or throws [NoSuchElementException]
if this deque is empty.^n *^/n public fun removeFirst(): E {^n if (isEmpty()) throw
NoSuchElementException("ArrayDeque is empty.")^n val element = internalGet(head)^n
elementData[head] = null^n head = incremented(head)^n size -- 1^n return element^n }^n /**^n
* Removes the first element from this deque and returns that removed element, or returns `null` if this deque is
empty.^n *^/n public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()^n /**^n *
Removes the last element from this deque and returns that removed element, or throws [NoSuchElementException]
if this deque is empty.^n *^/n public fun removeLast(): E {^n if (isEmpty()) throw

```

```

NoSuchElementException("ArrayDeque is empty.")\n    val internalLastIndex = internalIndex(lastIndex)\n    val element = internalGet(internalLastIndex)\n    elementData[internalLastIndex] = null\n    size -= 1\n    return element\n  }\n  /**\n   * Removes the last element from this deque and returns that removed element, or\n   * returns `null` if this deque is empty.\n   */\n  public fun removeLastOrNull(): E? = if (isEmpty()) null else\n    removeLast()\n\n  // MutableList, MutableCollection\n  public override fun add(element: E): Boolean {\n    addLast(element)\n    return true\n  }\n\n  public override fun add(index: Int, element: E) {\n    AbstractList.checkPositionIndex(index, size)\n    if (index == size) {\n      addLast(element)\n    }\n    return\n  } else if (index == 0) {\n    addFirst(element)\n    return\n  }\n\n  ensureCapacity(size + 1)\n\n  // Elements in circular array lay in 2 ways:\n  // 1. `head` is less than `tail`:  [#, #, e1, e2, e3, #]\n  // 2. `head` is greater than `tail`: [e3, #, #, #, e1, e2]\n  // where head is the index of the first element in the circular array,\n  // and tail is the index following the last element.\n  // At this point the insertion index is not equal to head or tail.\n  // Also the circular array can store at least one more element.\n\n  // Depending on where the given element must be inserted the preceding or the succeeding\n  // elements will be shifted to make room for the element to be inserted.\n  // In case the preceding elements are shifted:\n  // * if the insertion index is greater than the head (regardless of circular array form)\n  // -> shift the preceding elements\n  // * otherwise, the circular array has (2) form and the insertion index is less than\n  // tail\n  // -> shift all elements in the back of the array\n  // -> shift preceding elements in the front of the array\n  // In case the succeeding elements are shifted:\n  // * if the insertion index is less than the tail (regardless of circular array form)\n  // -> shift the succeeding elements\n  // * otherwise, the circular array has (2) form and the insertion index is greater than head\n  // -> shift all elements in the front of the array\n  // -> shift succeeding elements in the back of the array\n\n  val internalIndex =\n    internalIndex(index)\n    if (index < (size + 1) shr 1) {\n      // closer to the first element -> shift preceding\n      // elements\n      val decrementedInternalIndex = decremented(internalIndex)\n      val decrementedHead =\n        decremented(head)\n      if (decrementedInternalIndex >= head) {\n        elementData[decrementedHead]\n        = elementData[head] // head can be zero\n        elementData.copyInto(elementData, head, head + 1,\n        decrementedInternalIndex + 1)\n      } else { // head > tail\n        elementData.copyInto(elementData, head -\n        1, head, elementData.size) // head can't be zero\n        elementData[elementData.size - 1] = elementData[0]\n        elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n      }\n    }\n    elementData[decrementedInternalIndex] = element\n    head = decrementedHead\n  } else {\n    //\n    // closer to the last element -> shift succeeding elements\n    val tail = internalIndex(size)\n    if\n    (internalIndex < tail) {\n      elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)\n    }\n    } else { // head > tail\n      elementData.copyInto(elementData, 1, 0, tail)\n      elementData[0] =\n      elementData[elementData.size - 1]\n      elementData.copyInto(elementData, internalIndex + 1, internalIndex,\n      elementData.size - 1)\n    }\n    elementData[internalIndex] = element\n  }\n  size += 1\n}\n\nprivate fun copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n  val iterator =\n  elements.iterator()\n  for (index in internalIndex until elementData.size) {\n    if (!iterator.hasNext())\n    break\n    elementData[index] = iterator.next()\n  }\n  for (index in 0 until head) {\n    if\n    (!iterator.hasNext()) break\n    elementData[index] = iterator.next()\n  }\n  size += elements.size\n}\n\npublic override fun addAll(elements: Collection<E>): Boolean {\n  if (elements.isEmpty()) return false\n  ensureCapacity(this.size + elements.size)\n  copyCollectionElements(internalIndex(size), elements)\n  return true\n}\n\npublic override fun addAll(index: Int, elements: Collection<E>): Boolean {\n  AbstractList.checkPositionIndex(index, size)\n  if (elements.isEmpty())\n    return false\n  } else if\n  (index == size) {\n    return addAll(elements)\n  }\n  ensureCapacity(this.size + elements.size)\n  val tail = internalIndex(size)\n  val internalIndex = internalIndex(index)\n  val elementsSize =\n  elements.size\n  if (index < (size + 1) shr 1) {\n    // closer to the first element -> shift preceding\n    // elements\n    var shiftedHead = head - elementsSize\n    if (internalIndex >= head) {\n      if\n      (shiftedHead >= 0) {\n        elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n      }\n    } else { // head < tail, insertion leads to head >= tail\n      shiftedHead += elementData.size\n    }\n  }\n  val

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elementsToShift = internalIndex - head\n                val shiftToBack = elementData.size - shiftedHead\n\n        if (shiftToBack >= elementsToShift) {\n                elementData.copyInto(elementData, shiftedHead, head,\ninternalIndex)\n        } else {\n                elementData.copyInto(elementData, shiftedHead, head, head +\nshiftToBack)\n                elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n        }\n        }\n        } else { // head > tail, internalIndex < tail\n                elementData.copyInto(elementData,\nshiftedHead, head, elementData.size)\n                if (elementsSize >= internalIndex) {\n                elementData.copyInto(elementData, elementData.size - elementsSize, 0, internalIndex)\n        } else {\n                elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)\n                elementData.copyInto(elementData, 0, elementsSize, internalIndex)\n        }\n        }\n        head =\nshiftedHead\n        copyCollectionElements(negativeMod(internalIndex - elementsSize), elements)\n    } else\n{\n        // closer to the last element -> shift succeeding elements\n        val shiftedInternalIndex =\ninternalIndex + elementsSize\n        if (internalIndex < tail) {\n        if (tail + elementsSize <=\nelementData.size) {\n                elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail)\n        } else { // head < tail, insertion leads to head >= tail\n                if (shiftedInternalIndex >= elementData.size)\n{\n                elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, tail)\n        }\n        } else {\n                val shiftToFront = tail + elementsSize - elementData.size\n                elementData.copyInto(elementData, 0, tail - shiftToFront, tail)\n                elementData.copyInto(elementData,\nshiftedInternalIndex, internalIndex, tail - shiftToFront)\n        }\n        }\n        } else { // head > tail,\ninternalIndex > head\n                elementData.copyInto(elementData, elementsSize, 0, tail)\n                if\n(shiftedInternalIndex >= elementData.size) {\n                elementData.copyInto(elementData, shiftedInternalIndex\n- elementData.size, internalIndex, elementData.size)\n        } else {\n                elementData.copyInto(elementData, 0, elementData.size - elementsSize, elementData.size)\n                elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, elementData.size - elementsSize)\n        }\n    }\n    }\n    copyCollectionElements(internalIndex, elements)\n    }\n\n    return true\n}\n\n public\noverride fun get(index: Int): E {\n    AbstractList.checkElementIndex(index, size)\n\n    return\ninternalGet(internalIndex(index))\n}\n\n public override fun set(index: Int, element: E): E {\n\nAbstractList.checkElementIndex(index, size)\n    val internalIndex = internalIndex(index)\n    val oldElement\n= internalGet(internalIndex)\n    elementData[internalIndex] = element\n\n    return oldElement\n}\n\n\n public override fun\ncontains(element: E): Boolean = indexOf(element) != -1\n\n public override fun\nindexOf(element: E): Int {\n    val tail = internalIndex(size)\n\n    if (head < tail) {\n        for (index in head\nuntil tail) {\n            if (element == elementData[index]) return index - head\n        }\n    } else if (head >=\ntail) {\n        for (index in head until elementData.size) {\n            if (element == elementData[index]) return\nindex - head\n        }\n        for (index in 0 until tail) {\n            if (element == elementData[index]) return\nindex + elementData.size - head\n        }\n    }\n\n    return -1\n}\n\n\n public override fun\nlastIndexOf(element: E): Int {\n    val tail = internalIndex(size)\n\n    if (head < tail) {\n        for (index in tail\n- 1 downTo head) {\n            if (element == elementData[index]) return index - head\n        }\n    } else if\n(head > tail) {\n        for (index in tail - 1 downTo 0) {\n            if (element == elementData[index]) return\nindex + elementData.size - head\n        }\n        for (index in elementData.lastIndex downTo head) {\n            if (element == elementData[index]) return index - head\n        }\n    }\n\n    return -1\n}\n\n\n\n public\noverride fun remove(element: E): Boolean {\n    val index = indexOf(element)\n    if (index == -1) return\nfalse\n    removeAt(index)\n    return true\n}\n\n\n\n public override fun removeAt(index: Int): E {\n\nAbstractList.checkElementIndex(index, size)\n    if (index == lastIndex) {\n        return removeLast()\n    }\n    else if (index == 0) {\n        return removeFirst()\n    }\n\n    val internalIndex = internalIndex(index)\n    val element = internalGet(internalIndex)\n\n    if (index < size shr 1) {\n        // closer to the first element ->\nshift preceding elements\n        if (internalIndex >= head) {\n                elementData.copyInto(elementData, head\n+ 1, head, internalIndex)\n        } else { // head > tail, internalIndex < head\n                elementData.copyInto(elementData, 1, 0, internalIndex)\n                elementData[0] = elementData[elementData.size\n- 1]\n                elementData.copyInto(elementData, head + 1, head, elementData.size - 1)\n        }\n    }\n}

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elementData[head] = null\n        head = incremented(head)\n        } else {\n        // closer to the last element ->
shift succeeding elements\n        val internalLastIndex = internalIndex(lastIndex)\n        if (internalIndex <=
internalLastIndex) {\n        elementData.copyInto(elementData, internalIndex, internalIndex + 1,
internalLastIndex + 1)\n        } else { // head > tail, internalIndex > head\n
elementData.copyInto(elementData, internalIndex, internalIndex + 1, elementData.size)\n
elementData[elementData.size - 1] = elementData[0]\n        elementData.copyInto(elementData, 0, 1,
internalLastIndex + 1)\n        }\n        elementData[internalLastIndex] = null\n        }\n        size -= 1\n\nreturn element\n    }\n\n    public override fun removeAll(elements: Collection<E>): Boolean = filterInPlace {
!elements.contains(it) }\n\n    public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace {
elements.contains(it) }\n\n    private inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {\n        if
(this.isEmpty() || elementData.isEmpty())\n        return false\n\n        val tail = internalIndex(size)\n        var
newTail = head\n        var modified = false\n\n        if (head < tail) {\n            for (index in head until tail) {\n
                val element = elementData[index]\n\n                @Suppress(\"UNCHECKED_CAST\")\n                if
(predicate(element as E))\n                elementData[newTail++] = element\n                else\n                modified =
true\n            }\n            elementData.fill(null, newTail, tail)\n        } else {\n            for (index in head until
elementData.size) {\n                val element = elementData[index]\n                elementData[index] = null\n\n                @Suppress(\"UNCHECKED_CAST\")\n                if (predicate(element as E))\n                elementData[newTail++] = element\n                else\n                modified = true\n            }\n            newTail =
positiveMod(newTail)\n\n            for (index in 0 until tail) {\n                val element = elementData[index]\n
                elementData[index] = null\n\n                @Suppress(\"UNCHECKED_CAST\")\n                if (predicate(element as
E)) {\n                    elementData[newTail] = element\n                    newTail = incremented(newTail)\n                }
                else {\n                    modified = true\n                }\n            }\n            if (modified)\n                size =
negativeMod(newTail - head)\n\n            return modified\n        }\n\n        public override fun clear() {\n            val tail =
internalIndex(size)\n            if (head < tail) {\n                elementData.fill(null, head, tail)\n            } else if (isEmpty())
{\n                elementData.fill(null, head, elementData.size)\n                elementData.fill(null, 0, tail)\n            }\n            head =
0\n            size = 0\n        }\n\n        internal companion object {\n            private val emptyElementData =
emptyArray<Any?>()\n            private const val maxArraySize = Int.MAX_VALUE - 8\n            private const val
defaultMinCapacity = 10\n\n            internal fun newCapacity(oldCapacity: Int, minCapacity: Int): Int {\n                //
overflow-conscious\n                var newCapacity = oldCapacity + (oldCapacity shr 1)\n                if (newCapacity -
minCapacity < 0)\n                newCapacity = minCapacity\n                if (newCapacity - maxArraySize > 0)\n
                newCapacity = if (minCapacity > maxArraySize) Int.MAX_VALUE else maxArraySize\n                return
newCapacity\n            }\n        }\n\n        // For testing only\n        internal fun internalStructure(structure: (head: Int, elements:
Array<Any?>) -> Unit) {\n            val tail = internalIndex(size)\n            if (isEmpty()) {\n                structure(head,
emptyArray())\n            }\n            return\n        }\n\n        val elements = arrayOfNulls<Any?>(size)\n        if (head < tail) {\n
            elementData.copyInto(elements, startIndex = head, endIndex = tail)\n            structure(head, elements)\n        }
        else {\n            elementData.copyInto(elements, startIndex = head)\n            elementData.copyInto(elements,
elementData.size - head, startIndex = 0, endIndex = tail)\n            structure(head - elementData.size, elements)\n
        }\n    }\n}
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this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\n\npackage
kotlin.collections\nimport kotlin.contracts.*\n\n/**\n * Returns a single list of all elements from all arrays in the
given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n */\npublic fun <T> Array<out
Array<out T>>.flatten(): List<T> {\n    val result = ArrayList<T>(sumBy { it.size })\n    for (element in this) {\n
        result.addAll(element)\n    }\n    return result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from
the first values of each pair from this array,\n * *second* list is built from the second values of each pair from this
array.\n * @sample samples.collections.Arrays.Transformations.unzipArray\n */\npublic fun <T, R> Array<out
Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>(size)\n    val listR =
ArrayList<R>(size)\n    for (pair in this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return

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listT to listR}\n\n/**\n * Returns `true` if this nullable array is either null or empty.\n * @sample
samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean
{\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n return this == null ||
this.isEmpty()\n}\n\n/**\n * Returns this array if it's not empty\n * or the result of calling [defaultValue] function if
the array is empty.\n *\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY")\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n if (isEmpty())
defaultValue() else
this\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.Jvm
Name("contentDeepEquals")\n@kotlin.js.JsName("contentDeepEqualsImpl")\ninternal fun <T> Array<out
T>?.contentDeepEqualsImpl(other: Array<out T>?): Boolean {\n if (this === other) return true\n if (this == null
|| other == null || this.size != other.size) return false\n\n for (i in indices) {\n val v1 = this[i]\n val v2 =
other[i]\n\n if (v1 === v2) {\n continue\n } else if (v1 == null || v2 == null) {\n return false\n
}\n\n when {\n v1 is Array<*> && v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return
false\n v1 is ByteArray && v2 is ByteArray -> if (!v1.contentEquals(v2)) return false\n v1 is
ShortArray && v2 is ShortArray -> if (!v1.contentEquals(v2)) return false\n v1 is IntArray && v2 is
IntArray -> if (!v1.contentEquals(v2)) return false\n v1 is LongArray && v2 is LongArray -> if
(!v1.contentEquals(v2)) return false\n v1 is FloatArray && v2 is FloatArray -> if (!v1.contentEquals(v2))
return false\n v1 is DoubleArray && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false\n
v1 is CharArray && v2 is CharArray -> if (!v1.contentEquals(v2)) return false\n v1 is BooleanArray &&
v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\n v1 is UByteArray && v2 is UByteArray
-> if (!v1.contentEquals(v2)) return false\n v1 is UShortArray && v2 is UShortArray -> if
(!v1.contentEquals(v2)) return false\n v1 is UIntArray && v2 is UIntArray -> if (!v1.contentEquals(v2))
return false\n v1 is ULongArray && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false\n\n
else -> if (v1 != v2) return false\n }\n\n }\n return
true\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.
JsName("contentDeepToStringImpl")\ninternal fun <T> Array<out T>?.contentDeepToStringImpl(): String {\n
if (this == null) return "null"\n val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not
to overflow Int.MAX_VALUE\n return buildString(length) {\n contentDeepToStringInternal(this,
mutableListOf())\n }\n}\n\n@OptIn(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out
T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n if (this in
processed) {\n result.append("[...]")\n return\n }\n processed.add(this)\n result.append('[')\n\n for (i
in indices) {\n if (i != 0) {\n result.append(", ")\n }\n val element = this[i]\n when
(element) {\n null -> result.append("null")\n is Array<*> ->
element.contentDeepToStringInternal(result, processed)\n is ByteArray ->
result.append(element.contentToString())\n is ShortArray -> result.append(element.contentToString())\n
is IntArray -> result.append(element.contentToString())\n is LongArray ->
result.append(element.contentToString())\n is FloatArray -> result.append(element.contentToString())\n
is DoubleArray -> result.append(element.contentToString())\n is CharArray ->
result.append(element.contentToString())\n is BooleanArray -> result.append(element.contentToString())\n
is UByteArray -> result.append(element.contentToString())\n is UShortArray ->
result.append(element.contentToString())\n is UIntArray -> result.append(element.contentToString())\n
is ULongArray -> result.append(element.contentToString())\n\n else ->
result.append(element.toString())\n }\n }\n\n result.append('']\n
processed.removeAt(processed.lastIndex)\n}"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Data class representing a value from a

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collection or sequence, along with its index in that collection or sequence.

`* @property value` the underlying value.

`* @property index` the index of the value in the collection or sequence.

`*/` public data class

`IndexedValue<out T>`(public val index: Int, public val value: T)

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`*/` @file:kotlin.jvm.JvmName("MapAccessorsKt")

`*/` @package kotlin.collections

`*/` @nimport kotlin.reflect.KProperty

`*/` @nimport kotlin.internal.Exact

`*/` Returns the value of the property for the given object from this read-only map.

`* @param thisRef` the object for which the value is requested (not used).

`* @param property` the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.

`* @return` the property value.

`* @throws NoSuchElementException` when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).

`*/` @kotlin.internal.InlineOnly

`*/` public inline operator fun <V, V1 : V> Map<in String, @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =

`*/` @Suppress("UNCHECKED_CAST") (getOrNull(property.name) as V1)

`*/` Returns the value of the property for the given object from this mutable map.

`* @param thisRef` the object for which the value is requested (not used).

`* @param property` the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.

`* @return` the property value.

`* @throws NoSuchElementException` when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).

`*/` @kotlin.jvm.JvmName("getVar")

`*/` @kotlin.internal.InlineOnly

`*/` public inline operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =

`*/` @Suppress("UNCHECKED_CAST") (getOrNull(property.name) as V1)

`*/` Stores the value of the property for the given object in this mutable map.

`* @param thisRef` the object for which the value is requested (not used).

`* @param property` the metadata for the property, used to get the name of property and store the value associated with that name in the map.

`* @param value` the value to set.

`*/` @kotlin.internal.InlineOnly

`*/` public inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {

`*/` this.put(property.name, value)

`*/` }

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`*/` @file:kotlin.jvm.JvmMultifileClass

`*/` @file:kotlin.jvm.JvmName("MapsKt")

`*/` @package kotlin.collections

`*/` Returns the value for the given key, or the implicit default value for this map.

`* By default` no implicit value is provided for maps and a [NoSuchElementException] is thrown.

`* To create` a map with implicit default value use [withDefault] method.

`* @throws NoSuchElementException` when the map doesn't contain a value for the specified key and no implicit default was provided for that map.

`*/` @kotlin.jvm.JvmName("getOrNull")

`*/` @PublishedApi

`*/` internal fun <K, V> Map<K, V>.getOrNull(key: K): V {

`*/` if (this is MapWithDefault)

`*/` return this.getOrNull(key)

`*/` return getOrNull(key, { throw NoSuchElementException("Key \$key is missing in the map.") })

`*/` }

`*/` Returns a wrapper of this read-only map, having the implicit default value provided with the specified function [defaultValue].

`* This implicit default value` is used when the original map doesn't contain a value for the key specified

`* and a value` is obtained with [Map.getValue] function, for example when properties are delegated to the map.

`* When this map` already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.

`*/` public fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =

`*/` when (this) {

`*/` is MapWithDefault -> this.map.withDefault(defaultValue)

`*/` else -> MapWithDefaultImpl(this, defaultValue)

`*/` }

`*/` Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].

`* This implicit default value` is used when the original map doesn't contain a value for the key specified

`* and a value` is obtained with [Map.getValue] function, for example when properties are delegated to the map.

`* When this map` already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.

`*/` @kotlin.jvm.JvmName("withDefaultMutable")

`*/` public fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =

`*/` when (this) {

`*/` is

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MutableMapWithDefault -> this.map.withDefault(defaultValue)\n    else -> MutableMapWithDefaultImpl(this,
defaultValue)\n  }\n\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\n  public val map: Map<K,
V>\n  public fun getOrDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K, V> :
MutableMap<K, V>, MapWithDefault<K, V> {\n  public override val map: MutableMap<K, V>\n}\n\nprivate
class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) :
MapWithDefault<K, V> {\n  override fun equals(other: Any?): Boolean = map.equals(other)\n  override fun
hashCode(): Int = map.hashCode()\n  override fun toString(): String = map.toString()\n  override val size: Int get()
= map.size\n  override fun isEmpty(): Boolean = map.isEmpty()\n  override fun containsKey(key: K): Boolean =
map.containsKey(key)\n  override fun containsValue(value: @UnsafeVariance V): Boolean =
map.containsValue(value)\n  override fun get(key: K): V? = map.get(key)\n  override val keys: Set<K> get() =
map.keys\n  override val values: Collection<V> get() = map.values\n  override val entries: Set<Map.Entry<K,
V>> get() = map.entries\n\n  override fun getOrDefault(key: K): V = map.getOrElseNullable(key, {
default(key) })\n}\n\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K,
V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\n  override fun equals(other: Any?):
Boolean = map.equals(other)\n  override fun hashCode(): Int = map.hashCode()\n  override fun toString(): String
= map.toString()\n  override val size: Int get() = map.size\n  override fun isEmpty(): Boolean = map.isEmpty()\n
override fun containsKey(key: K): Boolean = map.containsKey(key)\n  override fun containsValue(value:
@UnsafeVariance V): Boolean = map.containsValue(value)\n  override fun get(key: K): V? = map.get(key)\n
override val keys: MutableSet<K> get() = map.keys\n  override val values: MutableCollection<V> get() =
map.values\n  override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\n\n
override fun put(key: K, value: V): V? = map.put(key, value)\n  override fun remove(key: K): V? =
map.remove(key)\n  override fun putAll(from: Map<out K, V>) = map.putAll(from)\n  override fun clear() =
map.clear()\n\n  override fun getOrDefault(key: K): V = map.getOrElseNullable(key, { default(key)
})\n}\n\n"/\n\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nimport kotlin.random.Random\n\n/**\n * Removes a single instance of the specified element
from this\n * collection, if it is present.\n * \n * Allows to overcome type-safety restriction of `remove` that requires
to pass an element of type `E`.\n * \n * @return `true` if the element has been successfully removed; `false` if it was
not present in the collection.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes
T> MutableCollection<out T>.remove(element: T): Boolean =\n  @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).remove(element)\n\n/**\n * Removes all of this collection's elements that are also
contained in the specified collection.\n * \n * Allows to overcome type-safety restriction of `removeAll` that requires
to pass a collection of type `Collection<E>`.\n * \n * @return `true` if any of the specified elements was removed
from the collection, `false` if the collection was not modified.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun
<@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean
=\n  @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).removeAll(elements)\n\n/**\n * Retains only the
elements in this collection that are contained in the specified collection.\n * \n * Allows to overcome type-safety
restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\n * \n * @return `true` if
any element was removed from the collection, `false` if the collection was not modified.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T>
MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =\n  @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the specified [element] to this mutable collection.\n * \n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T)
{\n  this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this mutable
collection.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.plusAssign(elements: Iterable<T>) {\n  this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given
[elements] array to this mutable collection.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>

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MutableCollection<in T>.plusAssign(elements: Array<T>) {\n  this.addAll(elements)\n}\n\n/**\n * Adds all
elements of the given [elements] sequence to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\n
this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the specified [element] from this mutable
collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.minusAssign(element: T) {\n  this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given
[elements] collection from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun
<T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\n  this.removeAll(elements)\n}\n\n/**\n *
Removes all elements contained in the given [elements] array from this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements:
Array<T>) {\n  this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements]
sequence from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\n  this.removeAll(elements)\n}\n\n/**\n * Adds
all elements of the given [elements] collection to this [MutableCollection].\n */\npublic fun <T>
MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\n  when (elements) {\n    is Collection ->
return addAll(elements)\n    else -> {\n      var result: Boolean = false\n      for (item in elements)\n
if (add(item)) result = true\n      return result\n    }\n  }\n}\n\n/**\n * Adds all elements of the given
[elements] sequence to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements:
Sequence<T>): Boolean {\n  var result: Boolean = false\n  for (item in elements) {\n    if (add(item)) result =
true\n  }\n  return result\n}\n\n/**\n * Adds all elements of the given [elements] array to this
[MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {\n
return addAll(elements.asList())\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also
contained in the given [elements] collection.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements:
Iterable<T>): Boolean {\n  return removeAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n *
Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.\n
*/\npublic fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\n  val set =
elements.toHashSet()\n  return set.isNotEmpty() && removeAll(set)\n}\n\n/**\n * Removes all elements from this
[MutableCollection] that are also contained in the given [elements] array.\n */\npublic fun <T>
MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {\n  return elements.isNotEmpty() &&
removeAll(elements.toHashSet())\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained
in the given [elements] collection.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>):
Boolean {\n  return retainAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Retains only
elements of this [MutableCollection] that are contained in the given [elements] array.\n */\npublic fun <T>
MutableCollection<in T>.retainAll(elements: Array<out T>): Boolean {\n  if (elements.isNotEmpty())\n    return
retainAll(elements.toHashSet())\n  else\n    return retainNothing()\n}\n\n/**\n * Retains only elements of this
[MutableCollection] that are contained in the given [elements] sequence.\n */\npublic fun <T>
MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {\n  val set = elements.toHashSet()\n  if
(set.isNotEmpty())\n    return retainAll(set)\n  else\n    return retainNothing()\n}\n\nprivate fun
MutableCollection<*>.retainNothing(): Boolean {\n  val result = isEmpty()\n  clear()\n  return
result\n}\n\n/**\n * Removes all elements from this [MutableIterable] that match the given [predicate].\n */\n *
@return `true` if any element was removed from this collection, or `false` when no elements were removed and
collection was not modified.\n */\npublic fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean):
Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains only elements of this [MutableIterable] that match the
given [predicate].\n */\n * @return `true` if any element was removed from this collection, or `false` when all
elements were retained and collection was not modified.\n */\npublic fun <T>
MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\n\nprivate fun
<T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\n
var result = false\n  with(iterator()) {\n    while (hasNext())\n      if (predicate(next()) ==

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predicateResultToRemove) {\n          remove()\n          result = true\n          }\n }\n return
result\n}\n\n/**\n * Removes the element at the specified [index] from this list.\n * In Kotlin one should use the
[MutableList.removeAt] function instead.\n */\n@Deprecated("Use removeAt(index) instead.",
ReplaceWith("removeAt(index)"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline
fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\n\n/**\n * Removes the first element from this
mutable list and returns that removed element, or throws [NoSuchElementException] if this list is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(0)\n\n/**\n * Removes the first element from this mutable list and returns that removed element, or
returns `null` if this list is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)\n\n/**\n * Removes the last
element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is
empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(lastIndex)\n\n/**\n * Removes the last element from this mutable list and returns that removed element,
or returns `null` if this list is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n/**\n * Removes all
elements from this [MutableList] that match the given [predicate].\n * @return `true` if any element was
removed from this collection, or `false` when no elements were removed and collection was not modified.\n
*/\npublic fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,
true)\n\n/**\n * Retains only elements of this [MutableList] that match the given [predicate].\n * @return `true`
if any element was removed from this collection, or `false` when all elements were retained and collection was not
modified.\n */\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean =
filterInPlace(predicate, false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean,
predicateResultToRemove: Boolean): Boolean {\n    if (this is RandomAccess)\n        return (this as
MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n\n    var writeIndex: Int = 0\n    for
(readIndex in 0..lastIndex) {\n        val element = this[readIndex]\n        if (predicate(element) ==
predicateResultToRemove)\n            continue\n\n        if (writeIndex != readIndex)\n            this[writeIndex] =
element\n\n        writeIndex++\n    }\n    if (writeIndex < size) {\n        for (removeIndex in lastIndex downTo
writeIndex)\n            removeAt(removeIndex)\n\n        return true\n    } else {\n        return false\n    }\n}\n\n"/**\n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) :
AbstractList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) :
AbstractMutableList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n\n    override fun clear() = delegate.clear()\n    override fun removeAt(index:
Int): T = delegate.removeAt(reverseElementIndex(index))\n\n    override fun set(index: Int, element: T): T =
delegate.set(reverseElementIndex(index), element)\n\n    override fun add(index: Int, element: T) {\n
delegate.add(reversePositionIndex(index), element)\n    }\n}\n\nprivate fun List<*>.reverseElementIndex(index:
Int) =\n    if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException("Element index
$index must be in range [{0..lastIndex}].")\n\nprivate fun List<*>.reversePositionIndex(index: Int) =\n    if (index
in 0..size) size - index else throw IndexOutOfBoundsException("Position index $index must be in range
[{0..size}].")\n\n/**\n * Returns a reversed read-only view of the original List.\n * All changes made in the
original list will be reflected in the reversed one.\n * @sample samples.collections.ReversedViews.asReversedList\n

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*^public fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\n\n/**\n * Returns a reversed
mutable view of the original mutable List.\n * All changes made in the original list will be reflected in the reversed
one and vice versa.\n * @sample samples.collections.ReversedViews.asReversedMutableList\n
*^@kotlin.jvm.JvmName("asReversedMutable")\npublic fun <T> MutableList<T>.asReversed():
MutableList<T> = ReversedList(this)\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*^@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n@file:OptIn(Experimenta
lTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.*\nimport
kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Builds a
[Sequence] lazily yielding values one by one.\n * @see kotlin.sequences.generateSequence\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*^@SinceKotlin("1.3")\npublic fun <T>
sequence(@BuilderInference block: suspend SequenceScope<T>().-> Unit): Sequence<T> = Sequence {
iterator(block) }\n\n@SinceKotlin("1.3")\n@Deprecated("Use 'sequence { }' function instead."),
ReplaceWith("sequence(builderAction)"), level =
DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> buildSequence(@BuilderInference
noinline builderAction: suspend SequenceScope<T>().-> Unit): Sequence<T> = Sequence { iterator(builderAction)
}\n\n/**\n * Builds an [Iterator] lazily yielding values one by one.\n * @sample
samples.collections.Sequences.Building.buildIterator\n * @sample samples.collections.Iterables.Building.iterable\n
*^@SinceKotlin("1.3")\npublic fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>().->
Unit): Iterator<T> {\n    val iterator = SequenceBuilderIterator<T>()\n    iterator.nextStep =
block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)\n    return
iterator}\n\n@SinceKotlin("1.3")\n@Deprecated("Use 'iterator { }' function instead."),
ReplaceWith("iterator(builderAction)"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> buildIterator(@BuilderInference noinline builderAction: suspend SequenceScope<T>().-> Unit):
Iterator<T> = iterator(builderAction)\n\n/**\n * The scope for yielding values of a [Sequence] or an [Iterator],
provides [yield] and [yieldAll] suspension functions.\n * @see sequence\n * @see iterator\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*^@RestrictsSuspension\n@SinceKotlin("1.3")\npublic abstract class SequenceScope<in T> internal
constructor() {\n    /**\n     * Yields a value to the [Iterator] being built and suspends\n     * until the next value is
requested.\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n     * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n     *^ public abstract suspend fun yield(value:
T)\n\n     /**\n     * Yields all values from the `iterator` to the [Iterator] being built\n     * and suspends until all these
values are iterated and the next one is requested.\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n
     *^ public abstract suspend fun yieldAll(iterator: Iterator<T>)\n\n     /**\n     * Yields a collections of values to
the [Iterator] being built\n     * and suspends until all these values are iterated and the next one is requested.\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n     *^ public suspend fun
yieldAll(elements: Iterable<T>) {\n     if (elements is Collection && elements.isEmpty()) return\n     return
yieldAll(elements.iterator())\n     }\n\n     /**\n     * Yields potentially infinite sequence of values to the [Iterator]
being built\n     * and suspends until all these values are iterated and the next one is requested.\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     *^ public suspend fun yieldAll(sequence:
Sequence<T>) = yieldAll(sequence.iterator())\n\n@Deprecated("Use SequenceScope class instead."),
ReplaceWith("SequenceScope<T>"), level = DeprecationLevel.ERROR)\npublic typealias SequenceBuilder<T> =
SequenceScope<T>\n\nprivate typealias State = Int\n\nprivate const val State_NotReady: State = 0\nprivate const

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val State_ManyNotReady: State = 1\nprivate const val State_ManyReady: State = 2\nprivate const val State_Ready:
State = 3\nprivate const val State_Done: State = 4\nprivate const val State_Failed: State = 5\n\nprivate class
SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n  private var state =
State_NotReady\n  private var nextValue: T? = null\n  private var nextIterator: Iterator<T>? = null\n  var
nextStep: Continuation<Unit>? = null\n\n  override fun hasNext(): Boolean {\n    while (true) {\n      when
(state) {\n        State_NotReady -> {}\n        State_ManyNotReady ->\n          if
(nextIterator!!.hasNext()) {\n            state = State_ManyReady\n            return true\n          }
        else {\n            nextIterator = null\n          }\n        State_Done -> return false\n        State_Ready, State_ManyReady -> return true\n        else -> throw exceptionalState()\n      }\n    }\n    state
= State_Failed\n    val step = nextStep!!\n    nextStep = null\n    step.resume(Unit)\n  }\n}\n\n  override fun next(): T {\n    when (state) {\n      State_NotReady, State_ManyNotReady -> return
nextNotReady()\n      State_ManyReady -> {\n        state = State_ManyNotReady\n        return
nextIterator!!.next()\n      }\n      State_Ready -> {\n        state = State_NotReady\n        @Suppress(\"UNCHECKED_CAST\")\n        val result = nextValue as T\n        nextValue = null\n        return result\n      }\n      else -> throw exceptionalState()\n    }\n  }\n\n  private fun nextNotReady(): T
{\n    if (!hasNext()) throw NoSuchElementException() else return next()\n  }\n\n  private fun
exceptionalState(): Throwable = when (state) {\n    State_Done -> NoSuchElementException()\n    State_Failed
-> IllegalStateException(\"Iterator has failed.\")\n    else -> IllegalStateException(\"Unexpected state of the
iterator: $state\")\n  }\n}\n\n  override suspend fun yield(value: T) {\n    nextValue = value\n    state =
State_Ready\n    return suspendCoroutineUninterceptedOrReturn { c ->\n      nextStep = c\n      COROUTINE_SUSPENDED\n    }\n  }\n\n  override suspend fun yieldAll(iterator: Iterator<T>) {\n    if
(!iterator.hasNext()) return\n    nextIterator = iterator\n    state = State_ManyReady\n    return
suspendCoroutineUninterceptedOrReturn { c ->\n      nextStep = c\n      COROUTINE_SUSPENDED\n    }\n  }\n}\n\n  // Completion continuation implementation\n  override fun resumeWith(result: Result<Unit>) {\n
result.getOrThrow() // just rethrow exception if it is there\n    state = State_Done\n  }\n\n  override val context:
CoroutineContext\n    get() = EmptyCoroutineContext\n}\n\n  /*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun
checkWindowSizeStep(size: Int, step: Int) {\n  require(size > 0 && step > 0) {\n    if (size != step)\n      \"Both size $size and step $step must be greater than zero.\"\n    else\n      \"size $size must be greater than
zero.\"\n  }\n}\n\ninternal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean,
reuseBuffer: Boolean): Sequence<List<T>> {\n  checkWindowSizeStep(size, step)\n  return Sequence {\n
windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }\n}\n\ninternal fun <T>
windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean):
Iterator<List<T>> {\n  if (!iterator.hasNext()) return EmptyIterator\n  return iterator<List<T>> {\n    val
bufferInitialCapacity = size.coerceAtMost(1024)\n    val gap = step - size\n    if (gap >= 0) {\n      var buffer
= ArrayList<T>(bufferInitialCapacity)\n      var skip = 0\n      for (e in iterator) {\n        if (skip > 0) {\n
skip -= 1; continue\n        }\n        buffer.add(e)\n        if (buffer.size == size) {\n          yield(buffer)\n          if (reuseBuffer) buffer.clear() else buffer = ArrayList(size)\n          skip = gap\n        }\n      }\n      if (buffer.isNotEmpty()) {\n        if (partialWindows || buffer.size == size) yield(buffer)\n      }\n    }
else {\n      var buffer = RingBuffer<T>(bufferInitialCapacity)\n      for (e in iterator) {\n        buffer.add(e)\n        if (buffer.isFull()) {\n          if (buffer.size < size) {\n            buffer =
buffer.expanded(maxCapacity = size); continue\n          }\n          yield(if (reuseBuffer) buffer else
ArrayList(buffer))\n          buffer.removeFirst(step)\n        }\n      }\n      if (partialWindows) {\n        while (buffer.size > step) {\n          yield(if (reuseBuffer) buffer else ArrayList(buffer))\n          buffer.removeFirst(step)\n        }\n        if (buffer.isNotEmpty()) yield(buffer)\n      }\n    }\n  }\n}\n\ninternal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\n
private var fromIndex: Int = 0\n  private var _size: Int = 0\n  fun move(fromIndex: Int, toIndex: Int) {\n

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checkRangeIndexes(fromIndex, toIndex, list.size)\n    this.fromIndex = fromIndex\n    this._size = toIndex -
fromIndex\n    }\n\n    override fun get(index: Int): E {\n        checkElementIndex(index, _size)\n        return
list[fromIndex + index]\n    }\n\n    override val size: Int get() = _size\n}\n\n/**\n * Provides ring buffer
implementation.\n * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.\n
*\nprivate class RingBuffer<T>(private val buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(),
RandomAccess {\n    init {\n        require(filledSize >= 0) {\n            "ring buffer filled size should not be negative but it is
$filledSize"\n        }\n        require(filledSize <= buffer.size) {\n            "ring buffer filled size: $filledSize cannot be larger than
the buffer size: ${buffer.size}"\n        }\n    }\n\n    constructor(capacity: Int) : this(arrayOfNulls<Any?>(capacity), 0)\n\n    private val capacity = buffer.size\n    private var startIndex: Int = 0\n\n    override var size: Int = filledSize\n\n    private set\n\n    override fun get(index: Int): T {\n        checkElementIndex(index, size)\n        @Suppress("UNCHECKED_CAST")\n        return buffer[startIndex.forward(index)] as T\n    }\n\n    fun isFull() =
size == capacity\n\n    override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {\n        private var count
= size\n        private var index = startIndex\n\n        override fun computeNext() {\n            if (count == 0) {\n
                done()\n            } else {\n                @Suppress("UNCHECKED_CAST")\n                setNext(buffer[index] as
T)\n                index = index.forward(1)\n                count--\n            }\n        }\n    }\n\n    @Suppress("UNCHECKED_CAST")\n    override fun <T> toArray(array: Array<T>): Array<T> {\n        val
result: Array<T?> =\n        if (array.size < this.size) array.copyOf(this.size) else array as Array<T?>\n\n        val
size = this.size\n        var widx = 0\n        var idx = startIndex\n        while (widx < size && idx < capacity) {\n
            result[widx] = buffer[idx] as T\n            widx++\n            idx++\n        }\n        idx = 0\n        while (widx <
size) {\n            result[widx] = buffer[idx] as T\n            widx++\n            idx++\n        }\n        if (result.size >
this.size) result[this.size] = null\n\n        return result as Array<T>\n    }\n\n    override fun toArray(): Array<Any?>
{\n        return toArray(arrayOfNulls(size))\n    }\n\n    /**\n     * Creates a new ring buffer with the capacity equal to
the minimum of [maxCapacity] and 1.5 * [capacity].\n     * The returned ring buffer contains the same elements as
this ring buffer.\n     *\n     fun expanded(maxCapacity: Int): RingBuffer<T> {\n        val newCapacity = (capacity +
(capacity shr 1) + 1).coerceAtMost(maxCapacity)\n        val newBuffer = if (startIndex == 0)\n        buffer.copyOf(newCapacity) else toArray(arrayOfNulls(newCapacity))\n        return RingBuffer(newBuffer, size)\n
    }\n\n    /**\n     * Add [element] to the buffer or fail with [IllegalStateException] if no free space available in the
buffer.\n     *\n     fun add(element: T) {\n        if (isFull()) {\n            throw IllegalStateException("ring buffer is
full")\n        }\n        buffer[startIndex.forward(size)] = element\n        size++\n    }\n\n    /**\n     * Removes [n]
first elements from the buffer or fails with [IllegalArgumentException] if not enough elements in the buffer to
remove.\n     *\n     fun removeFirst(n: Int) {\n        require(n >= 0) {\n            "n shouldn't be negative but it is $n"\n        }\n
        require(n <= size) {\n            "n shouldn't be greater than the buffer size: n = $n, size = $size"\n        }\n        if (n > 0) {\n
            val start = startIndex\n            val end = start.forward(n)\n            if (start > end) {\n                buffer.fill(null, start,
capacity)\n                buffer.fill(null, 0, end)\n            } else {\n                buffer.fill(null, start, end)\n            }\n
            startIndex = end\n            size -= n\n        }\n    }\n\n    @Suppress("NOTHING_TO_INLINE")\n    private
inline fun Int.forward(n: Int): Int = (this + n) % capacity\n}\n\n"/**\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n// UByteArray
=====\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: UByteArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n    array: UByteArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index
- 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n//
UShortArray
=====\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: UShortArray, left: Int, right: Int): Int {\n    var i = left\n

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var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UShortArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// UIntArray\n\n=====\n\n@Exp\nperimentalUnsignedTypes\nprivate fun partition(\n    array: UIntArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UIntArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// ULongArray\n\n=====\n\n@Exp\nperimentalUnsignedTypes\nprivate fun partition(\n    array: ULongArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: ULongArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// Interfaces\n\n=====\n\n\n/*\n\n * Sorts the given array using qsort algorithm.\n */\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UByteArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\nimport kotlin.internal.InlineOnly\n\n/*\n * This marker distinguishes the experimental contract declaration API and is used to opt-in for that feature\n * when declaring contracts of user functions.\n *\n * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.contracts.ExperimentalContracts`.\n */\n\n@Suppress("DEPRECATION")\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@Experimental\n@RequiresOptIn\n@MustBeDocumented\npublic annotation class ExperimentalContracts\n\n/*\n * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n * can be used to describe the contract of a function.\n *\n * This type is used as a receiver type of the lambda function passed to the [contract] function.\n *\n * @see contract\n */\n\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic interface ContractBuilder {\n\n    /*\n     * Describes a situation when a function returns normally, without any exceptions thrown.\n     *\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     *\n     * // @sample samples.contracts.returnsContract\n     */\n\n    @ContractsDsl\n    public fun returns(): Returns\n\n    /*\n     * Describes a situation when a function returns normally with the specified return [value].\n     *\n     * The possible values of [value] are limited to `true`, `false` or `null`.\n     *\n     * Use [SimpleEffect.implies] function to describe a

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conditional effect that happens in such case.\n    *\n    */\n    // @sample samples.contracts.returnsTrueContract\n
// @sample samples.contracts.returnsFalseContract\n    // @sample samples.contracts.returnsNullContract\n
@ContractsDsl public fun returns(value: Any?): Returns\n\n    /**\n    * Describes a situation when a function
returns normally with any value that is not `null`.\n    *\n    * Use [SimpleEffect.implies] function to describe a
conditional effect that happens in such case.\n    *\n    */\n    // @sample
samples.contracts.returnsNotNullContract\n    @ContractsDsl public fun returnsNotNull(): ReturnsNotNull\n\n
/**\n    * Specifies that the function parameter [lambda] is invoked in place.\n    *\n    * This contract specifies
that:\n    * 1. the function [lambda] can only be invoked during the call of the owner function,\n    * and it won't be
invoked after that owner function call is completed;\n    * 2. _(optionally)_ the function [lambda] is invoked the
amount of times specified by the [kind] parameter,\n    * see the [InvocationKind] enum for possible values.\n
*\n    * A function declaring the `callsInPlace` effect must be _inline_.\n    *\n    */\n    // @sample
samples.contracts.callsInPlaceAtMostOnceContract\n    * @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n    * @sample
samples.contracts.callsInPlaceExactlyOnceContract\n    * @sample
samples.contracts.callsInPlaceUnknownContract\n    */\n    @ContractsDsl public fun <R> callsInPlace(lambda:
Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n\n\n/**\n    * Specifies how
many times a function invokes its function parameter in place.\n    *\n    * See [ContractBuilder.callsInPlace] for the
details of the call-in-place function contract.\n
*\n    */\n    @ContractsDsl\n    @ExperimentalContracts\n    @SinceKotlin("1.3")\n    public enum class InvocationKind {\n
/**\n    * A function parameter will be invoked one time or not invoked at all.\n    */\n    // @sample
samples.contracts.callsInPlaceAtMostOnceContract\n    @ContractsDsl AT_MOST_ONCE,\n\n\n/**\n    * A
function parameter will be invoked one or more times.\n    *\n    */\n    // @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n    @ContractsDsl AT_LEAST_ONCE,\n\n\n/**\n    * A
function parameter will be invoked exactly one time.\n    *\n    */\n    // @sample
samples.contracts.callsInPlaceExactlyOnceContract\n    @ContractsDsl EXACTLY_ONCE,\n\n\n/**\n    * A
function parameter is called in place, but it's unknown how many times it can be called.\n    *\n    */\n    // @sample
samples.contracts.callsInPlaceUnknownContract\n    @ContractsDsl UNKNOWN\n\n\n/**\n    * Specifies the
contract of a function.\n    *\n    * The contract description must be at the beginning of a function and have at least one
effect.\n    *\n    * Only the top-level functions can have a contract for now.\n    *\n    * @param builder the lambda where
the contract of a function is described with the help of the [ContractBuilder] members.\n    *\n    */\n    // @sample
samples.contracts.returnsContract\n    * @sample samples.contracts.returnsTrueContract\n    * @sample
samples.contracts.returnsFalseContract\n    * @sample samples.contracts.returnsNullContract\n    * @sample
samples.contracts.returnsNotNullContract\n    * @sample samples.contracts.callsInPlaceAtMostOnceContract\n    *
@sample samples.contracts.callsInPlaceAtLeastOnceContract\n    * @sample
samples.contracts.callsInPlaceExactlyOnceContract\n    * @sample
samples.contracts.callsInPlaceUnknownContract\n    */\n    @ContractsDsl\n    @ExperimentalContracts\n    @InlineOnly\n    @
SinceKotlin("1.3")\n    @Suppress("UNUSED_PARAMETER")\n    public inline fun contract(builder:
ContractBuilder.() -> Unit) { }\n\n\n/**\n    * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n    * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n    */\n\n    package kotlin.coroutines\n\n\n/**\n    * Marks coroutine context element that
intercepts coroutine continuations.\n    * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the
interceptor and\n    * intercepts all coroutine continuations with [interceptContinuation] invocations.\n    *\n    *
[ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey], meaning that\n    *
its implementation delegates [get][CoroutineContext.Element.get] and
[minusKey][CoroutineContext.Element.minusKey]\n    * to [getPolymorphicElement] and [minusPolymorphicKey]
respectively.\n    * [ContinuationInterceptor] subtypes can be extracted from the coroutine context using either
[ContinuationInterceptor.Key]\n    * or subtype key if it extends [AbstractCoroutineContextKey].\n
*\n    */\n    @SinceKotlin("1.3")\n    public interface ContinuationInterceptor : CoroutineContext.Element {\n
/**\n    *

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The key that defines *the* context interceptor.\n    */\n    companion object Key :
CoroutineContext.Key<ContinuationInterceptor>\n\n    /**\n     * Returns continuation that wraps the original
[continuation], thus intercepting all resumptions.\n     * This function is invoked by coroutines framework when
needed and the resulting continuations are\n     * cached internally per each instance of the original [continuation].\n
     *\n     * This function may simply return original [continuation] if it does not want to intercept this particular
continuation.\n     *\n     * When the original [continuation] completes, coroutine framework invokes
[releaseInterceptedContinuation]\n     * with the resulting continuation if it was intercepted, that is if
`interceptContinuation` had previously\n     * returned a different continuation instance.\n     */\n    public fun <T>
interceptContinuation(continuation: Continuation<T>): Continuation<T>\n\n    /**\n     * Invoked for the
continuation instance returned by [interceptContinuation] when the original\n     * continuation completes and will
not be used anymore. This function is invoked only if [interceptContinuation]\n     * had returned a different
continuation instance from the one it was invoked with.\n     *\n     * Default implementation does nothing.\n     */\n
    * @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n
    */\n    public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n        /* do nothing by default
*/\n    }\n\n    public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>):
E? {\n        // getPolymorphicKey specialized for ContinuationInterceptor key\n
    @OptIn(ExperimentalStdlibApi::class)\n        if (key is AbstractCoroutineContextKey<*, *>) {\n
    @Suppress("\u0026quot;UNCHECKED_CAST\u0026quot;)\n            return if (key.isSubKey(this.key)) key.tryCast(this) as? E else
null\n        }\n        @Suppress("\u0026quot;UNCHECKED_CAST\u0026quot;)\n            return if (ContinuationInterceptor === key) this as
E else null\n    }\n\n    public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext {\n
// minusPolymorphicKey specialized for ContinuationInterceptor key\n
    @OptIn(ExperimentalStdlibApi::class)\n        if (key is AbstractCoroutineContextKey<*, *>) {\n            return if
(key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n        }\n        return if
(ContinuationInterceptor === key) EmptyCoroutineContext else this\n    }\n}\n\n    /**\n     * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\npackage kotlin.coroutines\n\n/**\n
 * Persistent context for the coroutine. It is an indexed set of [Element] instances.\n     * An indexed set is a mix between
a set and a map.\n     * Every element in this set has a unique [Key].\n     */\n\n@SinceKotlin("\u0026quot;1.3\u0026quot;)\npublic interface
CoroutineContext {\n\n    /**\n     * Returns the element with the given [key] from this context or `null`.\n     */\n
    public operator fun <E : Element> get(key: Key<E>): E?\n\n    /**\n     * Accumulates entries of this context
starting with [initial] value and applying [operation]\n     * from left to right to current accumulator value and each
element of this context.\n     */\n    public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n    /**\n
     * Returns a context containing elements from this context and elements from other [context].\n     * The elements
from this context with the same key as in the other one are dropped.\n     */\n    public operator fun plus(context:
CoroutineContext): CoroutineContext =\n        if (context === EmptyCoroutineContext) this else // fast path -- avoid
lambda creation\n            context.fold(this) { acc, element ->\n                val removed =
acc.minusKey(element.key)\n                if (removed === EmptyCoroutineContext) element else {\n                    //
make sure interceptor is always last in the context (and thus is fast to get when present)\n                    val interceptor
= removed[ContinuationInterceptor]\n                    if (interceptor == null) CombinedContext(removed, element) else
{\n                        val left = removed.minusKey(ContinuationInterceptor)\n                        if (left ===
EmptyCoroutineContext) CombinedContext(element, interceptor) else\n                        CombinedContext(CombinedContext(left, element), interceptor)\n                    }\n                }\n            }\n\n    /**\n
     * Returns a context containing elements from this context, but without an element with\n     * the specified [key].\n
     */\n    public fun minusKey(key: Key<*>): CoroutineContext\n\n    /**\n     * Key for the elements of
[CoroutineContext]. [E] is a type of element with this key.\n     */\n    public interface Key<E : Element>\n\n    /**\n
     * An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.\n
     */\n    public interface Element : CoroutineContext {\n\n        /**\n         * A key of this coroutine context element.\n
         */\n        public val key: Key<*>\n\n        public override operator fun <E : Element> get(key: Key<E>): E? =\n
    }

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    @Suppress("UNCHECKED_CAST")\n        if (this.key == key) this as E else null\n\n    public override
fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n        operation(initial, this)\n\n    public override
fun minusKey(key: Key<*>): CoroutineContext =\n        if (this.key == key) EmptyCoroutineContext else this\n
}\n}\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.CoroutineContext.Element\n\nimport
kotlin.coroutines.CoroutineContext.Key\n\n/**\n * Base class for [CoroutineContext.Element] implementations.\n
*/\n\n@SinceKotlin("1.3")\n\npublic abstract class AbstractCoroutineContextElement(public override val key:
Key<*>) : Element\n\n/**\n * Base class for [CoroutineContext.Key] associated with polymorphic
[CoroutineContext.Element] implementation.\n * Polymorphic element implementation implies delegating its
[get][Element.get] and [minusKey][Element.minusKey]\n * to [getPolymorphicElement] and
[minusPolymorphicKey] respectively.\n * Polymorphic elements can be extracted from the coroutine context
using both element key and its supertype key.\n * Example of polymorphic elements:\n * ```\n * open class
BaseElement : CoroutineContext.Element {\n *     companion object Key : CoroutineContext.Key<BaseElement>\n
*     override val key: CoroutineContext.Key<*> get() = Key\n *     // It is important to use getPolymorphicKey and
minusPolymorphicKey\n *     override fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>):
E? = getPolymorphicElement(key)\n *     override fun minusKey(key: CoroutineContext.Key<*>):
CoroutineContext = minusPolymorphicKey(key)\n * }\n\n * class DerivedElement : BaseElement() {\n *
companion object Key : AbstractCoroutineContextKey<BaseElement, DerivedElement>(BaseElement, { it as?
DerivedElement })\n * }\n * // Now it is possible to query both `BaseElement` and `DerivedElement`\n *
someContext[BaseElement] // Returns BaseElement?, non-null both for BaseElement and DerivedElement
instances\n * someContext[DerivedElement] // Returns DerivedElement?, non-null only for DerivedElement
instance\n * ```\n * @param B base class of a polymorphic element\n * @param baseKey an instance of base key\n
* @param E element type associated with the current key\n * @param safeCast a function that can safely cast
abstract [CoroutineContext.Element] to the concrete [E] type\n *         and return the element if it is a subtype
of [E] or `null` otherwise.\n */\n\n@ExperimentalStdlibApi\n\npublic abstract class
AbstractCoroutineContextKey<B : Element, E : B>(\n    baseKey: Key<B>,\n    private val safeCast: (element:
Element) -> E?) : Key<E> {\n    private val topmostKey: Key<*> = if (baseKey is
AbstractCoroutineContextKey<*, *>) baseKey.topmostKey else baseKey\n\n    internal fun tryCast(element:
Element): E? = safeCast(element)\n    internal fun isSubKey(key: Key<*>): Boolean = key === this || topmostKey
=== key\n}\n\n/**\n * Returns the current element if it is associated with the given [key] in a polymorphic manner
or `null` otherwise.\n * This method returns non-null value if either [Element.key] is equal to the given [key] or if
the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See
[AbstractCoroutineContextKey] for the example of usage.\n
*/\n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic fun <E : Element>
Element.getPolymorphicElement(key: Key<E>): E? {\n    if (key is AbstractCoroutineContextKey<*, *>) {\n
@Suppress("UNCHECKED_CAST")\n        return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n
}\n    @Suppress("UNCHECKED_CAST")\n        return if (this.key === key) this as E else null\n}\n\n/**\n * Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner\n * or
`null` otherwise.\n * This method returns empty context if either [Element.key] is equal to the given [key] or if the
[key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See
[AbstractCoroutineContextKey] for the example of usage.\n
*/\n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic fun Element.minusPolymorphicKey(key: Key<*>):
CoroutineContext {\n    if (key is AbstractCoroutineContextKey<*, *>) {\n        return if (key.isSubKey(this.key)
&& key.tryCast(this) != null) EmptyCoroutineContext else this\n    }\n    return if (this.key === key)
EmptyCoroutineContext else this\n}\n\n/**\n * An empty coroutine context.\n */\n\n@SinceKotlin("1.3")\n\npublic
object EmptyCoroutineContext : CoroutineContext, Serializable {\n    private const val serialVersionUID: Long =
0\n    private fun readResolve(): Any = EmptyCoroutineContext\n\n    public override fun <E : Element> get(key:

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Key<E>(): E? = null\n    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n    public
override fun plus(context: CoroutineContext): CoroutineContext = context\n    public override fun minusKey(key:
Key<*>): CoroutineContext = this\n    public override fun hashCode(): Int = 0\n    public override fun toString():
String = \"EmptyCoroutineContext\"\n\n//----- internal impl ----- \n\n// this class is not
exposed, but is hidden inside implementations\n\n// this is a left-biased list, so that `plus` works
naturally\n@SinceKotlin(\"1.3\")\ninternal class CombinedContext(\n    private val left: CoroutineContext,\n    private val element: Element\n) : CoroutineContext, Serializable {\n    override fun <E : Element> get(key:
Key<E>): E? {\n        var cur = this\n        while (true) {\n            cur.element[key]?.let { return it }\n            val next
= cur.left\n            if (next is CombinedContext) {\n                cur = next\n            } else {\n                return
next[key]\n            }\n        }\n    }\n    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n        operation(left.fold(initial, operation), element)\n    public override fun minusKey(key: Key<*>):
CoroutineContext {\n        element[key]?.let { return left }\n        val newLeft = left.minusKey(key)\n        return
when {\n            newLeft === left -> this\n            newLeft === EmptyCoroutineContext -> element\n            else ->
CombinedContext(newLeft, element)\n        }\n    }\n    private fun size(): Int {\n        var cur = this\n        var size
= 2\n        while (true) {\n            cur = cur.left as? CombinedContext ?: return size\n            size++\n        }\n    }\n    private fun contains(element: Element): Boolean =\n        get(element.key) == element\n    private fun
containsAll(context: CombinedContext): Boolean {\n        var cur = context\n        while (true) {\n            if
(!contains(cur.element)) return false\n            val next = cur.left\n            if (next is CombinedContext) {\n
                cur = next\n            } else {\n                return contains(next as Element)\n            }\n        }\n    }\n    override fun
equals(other: Any?): Boolean =\n        this === other || other is CombinedContext && other.size() == size() &&
other.containsAll(this)\n    override fun hashCode(): Int = left.hashCode() + element.hashCode()\n    override
fun toString(): String =\n        \"[\" + fold(\" \") { acc, element ->\n            if (acc.isEmpty()) element.toString() else
\"$acc, $element\"\n        } + \"]\"\n    private fun writeReplace(): Any {\n        val n = size()\n        val elements =
arrayOfNulls<CoroutineContext>(n)\n        var index = 0\n        fold(Unit) { _, element -> elements[index++] =
element }\n        check(index == n)\n        @Suppress(\"UNCHECKED_CAST\")\n        return Serialized(elements
as Array<CoroutineContext>)\n    }\n    private class Serialized(val elements: Array<CoroutineContext>) :
Serializable {\n        companion object {\n            private const val serialVersionUID: Long = 0L\n        }\n        private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\n    }\n}
\n\n/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n
*/\n\n@file:kotlin.jvm.JvmName(\"IntrinsicsKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.coroutines.intrinsics\n\nimport kotlin.contracts.*\nimport kotlin.coroutines.*\nimport
kotlin.internal.InlineOnly\n\n/**\n * Obtains the current continuation instance inside suspend functions and either
suspends\n * currently running coroutine or returns result immediately without suspension.\n * If the [block]
returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution
and will\n * not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\n *
resumed by invoking [Continuation.resumeWith] at some moment in the\n * future when the result becomes
available to resume the computation.\n * Otherwise, the return value of the [block] must have a type assignable
to [T] and represents the result of this suspend function.\n * It means that the execution was not suspended and the
[Continuation] provided to the [block] shall not be invoked.\n * As the result type of the [block] is declared as
`Any?` and cannot be correctly type-checked,\n * its proper return type remains on the conscience of the suspend
function's author.\n * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's
thread without going through the\n * [ContinuationInterceptor] that might be present in the coroutine's
[CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n *
[Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Note that it is not
recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions
synchronously\n * in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way
to obtain current\n * continuation instance.\n

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*\n@SinceKotlin("1.3")\n@InlineOnly\n@Suppress("UNUSED_PARAMETER",
"RedundantSuspendModifier")\npublic suspend inline fun <T>
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {\n  contract {
callsInPlace(block, InvocationKind.EXACTLY_ONCE) }\n  throw NotImplementedError("Implementation of
suspendCoroutineUninterceptedOrReturn is intrinsic")\n}\n/n/**\n * This value is used as a return value of
[suspendCoroutineUninterceptedOrReturn] `block` argument to state that\n * the execution was suspended and will
not return any result immediately.\n * \n * **Note: this value should not be used in general code.** Using it outside
of the context of\n * `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited
to,\n * storing this value in other properties, returning it from other functions, etc)\n * can lead to unspecified
behavior of the code.\n *\n// It is implemented as property with getter to avoid ProGuard <clinit> problem with
multifile IntrinsicKt class\n@SinceKotlin("1.3")\npublic val COROUTINE_SUSPENDED: Any get() =
CoroutineSingletons.COROUTINE_SUSPENDED\n/n// Using enum here ensures two important properties:\n// 1.
It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support
enums)\n// 2. It improves debugging experience, since you clearly see toString() value of those objects and what
package they come from\n@SinceKotlin("1.3")\n@PublishedApi // This class is Published API via serialized
representation of SafeContinuation, don't rename/move\ninternal enum class CoroutineSingletons {\n
COROUTINE_SUSPENDED, UNDECIDED, RESUMED }\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *\npackage kotlin.experimental\n/n/**\n * Performs a bitwise AND
operation between the two values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun
Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\n/n/**\n * Performs a bitwise OR
operation between the two values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun
Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()\n/n/**\n * Performs a bitwise XOR
operation between the two values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun
Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\n/n/**\n * Inverts the bits in this
value. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte =
(this.toInt().inv()).toByte()\n/n/n/**\n * Performs a bitwise AND operation between the two values.
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.and(other: Short): Short =
(this.toInt() and other.toInt()).toShort()\n/n/**\n * Performs a bitwise OR operation between the two
values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.or(other: Short): Short =
(this.toInt() or other.toInt()).toShort()\n/n/**\n * Performs a bitwise XOR operation between the two
values. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.xor(other: Short): Short =
(this.toInt() xor other.toInt()).toShort()\n/n/**\n * Inverts the bits in this value. *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short =
(this.toInt().inv()).toShort()\n/n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\npackage kotlin.experimental\n/n/**\n * The experimental marker for type
inference augmenting annotations.\n * \n * Any usage of a declaration annotated with
`@ExperimentalTypeInference` must be accepted either by\n * annotating that usage with the [OptIn] annotation,
e.g. `@OptIn(ExperimentalTypeInference::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.experimental.ExperimentalTypeInference`. \n *\n@Suppress("DEPRECATION")\n@Experimental(level =
Experimental.Level.ERROR)\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@SinceKotlin("1.3")\npublic annotation class
ExperimentalTypeInference\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\npackage kotlin.internal\n/n/**\n * Specifies that the corresponding type should be
ignored during type inference.\n

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`*\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\n`internal annotation class `NoInfer\n\n/**\n * Specifies that the constraint built for the type during type inference should be an equality one.\n`

`*\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\n`internal annotation class `Exact\n\n/**\n * Specifies that a corresponding member has the lowest priority in overload resolution.\n`

`*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n`internal annotation class `LowPriorityInOverloadResolution\n\n/**\n * Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\n * an extension annotated with this annotation will win in overload resolution over a member with the same signature.\n * \n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n`internal annotation class `HidesMembers\n\n/**\n * The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\n`

`*\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n`internal annotation class `OnlyInputTypes\n\n/**\n * Specifies that this function should not be called directly without inlining\n * \n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.BINARY)\n`internal annotation class `InlineOnly\n\n/**\n * Specifies that this declaration can have dynamic receiver type.\n`

`*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n`internal annotation class `DynamicExtension\n\n/**\n * The value of this parameter should be a property reference expression (this::foo), referencing a lateinit property,\n * the backing field of which is accessible at the point where the corresponding argument is passed.\n`

`*\n@Target(AnnotationTarget.VALUE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.2")\n`internal annotation class `AccessibleLateinitPropertyLiteral\n\n/**\n * Specifies that this declaration is only completely supported since the specified version.\n * \n * The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.\n * The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear\n * to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error\n * is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.\n * \n * [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.\n * Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going to\n * treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports\n * [RequireKotlinVersionKind.LANGUAGE_VERSION], [RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].\n * If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\n * Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement\n * on the language version.\n * \n * This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.\n * \n@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR, AnnotationTarget.TYPE_ALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin("1.2")\n`internal annotation class `RequireKotlin(\n val version: String,\n val message: String = "",\n val level: DeprecationLevel = DeprecationLevel.ERROR,\n val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE_VERSION,\n val errorCode: Int = -1)\n\n/**\n * The kind of the version that is required by [RequireKotlin].\n * \n@SinceKotlin("1.2")\n`internal enum class `RequireKotlinVersionKind {\n LANGUAGE_VERSION,\n COMPILER_VERSION,\n API_VERSION,\n}\n\n/**\n * Specifies that this declaration is a part of special DSL, used for constructing function's contract.\n * \n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.2")\n`internal annotation

```

class ContractsDsl {
    /**
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     * contributors.
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     * license/LICENSE.txt file.
     */
    package kotlin.properties
    import kotlin.reflect.KProperty

    /**
     * Standard
     * property delegates.
     */
    public object Delegates {
        /**
         * Returns a property delegate for a read/write
         * property with a non-`null` value that is initialized not during
         * object construction time but at a later time.
         * Trying to read the property before the initial value has been
         * assigned results in an exception.
         */
        @sample samples.properties.Delegates.notNullDelegate
        public fun <T : Any> notNull():
            ReadWriteProperty<Any?, T> = NotNullVar()

        /**
         * Returns a property delegate for a read/write property
         * that calls a specified callback function when changed.
         * @param initialValue the initial value of the property.
         * @param onChange the callback which is called after the change of the property is made. The value of the
         * property
         * has already been changed when this callback is invoked.
         */
        @sample
        samples.properties.Delegates.observableDelegate
        public inline fun <T> observable(initialValue: T,
            crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):
            ReadWriteProperty<Any?, T> =
                object : ObservableProperty<T>(initialValue) {
                    override fun
                    afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)
                }

        /**
         * Returns a property delegate for a read/write property that calls a specified callback function when
         * changed,
         * allowing the callback to veto the modification.
         * @param initialValue the initial value of the
         * property.
         * @param onChange the callback which is called before a change to the property value is attempted.
         * The value of the property hasn't been changed yet, when this callback is invoked.
         * If the callback returns
         * `true` the value of the property is being set to the new value,
         * and if the callback returns `false` the new value
         * is discarded and the property remains its old value.
         */
        @sample
        samples.properties.Delegates.vetoableDelegate
        @sample
        samples.properties.Delegates.throwVetoableDelegate
        public inline fun <T> vetoable(initialValue: T,
            crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):
            ReadWriteProperty<Any?, T> =
                object : ObservableProperty<T>(initialValue) {
                    override fun
                    beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue,
                    newValue)
                }

        private class NotNullVar<T : Any>(): ReadWriteProperty<Any?, T> {
            private var
            value: T? = null

            public override fun getValue(thisRef: Any?, property: KProperty<*>): T {
                return value
                ?: throw IllegalStateException("Property ${property.name} should be initialized before get.")
            }

            public
            override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {
                this.value = value
            }
        }
    }
}
/**
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of
 * this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.properties
import kotlin.reflect.KProperty

/**
 * Base interface that can be used for
 * implementing property delegates of read-only properties.
 * This is provided only for convenience; you don't
 * have to extend this interface
 * as long as your property delegate has methods with the same signatures.
 * @param T the type of object which owns the delegated property.
 * @param V the type of the property value.
 */
public fun interface ReadOnlyProperty<in T, out V> {
    /**
     * Returns the value of the property for the
     * given object.
     * @param thisRef the object for which the value is requested.
     * @param property the
     * metadata for the property.
     * @return the property value.
     */
    public operator fun getValue(thisRef: T,
        property: KProperty<*>): V
}

/**
 * Base interface that can be used for implementing property delegates of
 * read-write properties.
 * This is provided only for convenience; you don't have to extend this interface
 * as
 * long as your property delegate has methods with the same signatures.
 * @param T the type of object which
 * owns the delegated property.
 * @param V the type of the property value.
 */
public interface
    ReadWriteProperty<in T, V> : ReadOnlyProperty<T, V> {
    /**
     * Returns the value of the property for the
     * given object.
     * @param thisRef the object for which the value is requested.
     * @param property the
     * metadata for the property.
     * @return the property value.
     */
    public override operator fun
    getValue(thisRef: T, property: KProperty<*>): V

    /**
     * Sets the value of the property for the given
     * object.
     * @param thisRef the object for which the value is requested.
     * @param property the metadata for

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the property.\n * @param value the value to set.\n * ^\n public operator fun setValue(thisRef: T, property:
KProperty<*>, value: V)\n}\n\n/**\n * Base interface that can be used for implementing property delegate
providers.\n *\n * This is provided only for convenience; you don't have to extend this interface\n * as long as your
delegate provider has a method with the same signature.\n *\n * @param T the type of object which owns the
delegated property.\n * @param D the type of property delegates this provider provides.\n
*\n*@SinceKotlin("1.4")\npublic fun interface PropertyDelegateProvider<in T, out D> {\n /**\n * Returns the
delegate of the property for the given object.\n *\n * This function can be used to extend the logic of creating
the object (e.g. perform validation checks)\n * to which the property implementation is delegated.\n *\n *
@param thisRef the object for which property delegate is requested.\n * @param property the metadata for the
property.\n * @return the property delegate.\n * ^\n public operator fun provideDelegate(thisRef: T, property:
KProperty<*>): D\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * ^\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n *
Implements the core logic of a property delegate for a read/write property that calls callback functions when
changed.\n * @param initialValue the initial value of the property.\n * ^\npublic abstract class
ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {\n private var value = initialValue\n\n
/**\n * The callback which is called before a change to the property value is attempted.\n * The value of the
property hasn't been changed yet, when this callback is invoked.\n * If the callback returns `true` the value of the
property is being set to the new value,\n * and if the callback returns `false` the new value is discarded and the
property remains its old value.\n * ^\n protected open fun beforeChange(property: KProperty<*>, oldValue: V,
newValue: V): Boolean = true\n\n /**\n * The callback which is called after the change of the property is made.
The value of the property\n * has already been changed when this callback is invoked.\n * ^\n protected open
fun afterChange(property: KProperty<*>, oldValue: V, newValue: V): Unit {} \n\n public override fun
getValue(thisRef: Any?, property: KProperty<*>): V {\n return value\n } \n\n public override fun
setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n val oldValue = this.value\n if
(!beforeChange(property, oldValue, value)) {\n return\n } \n this.value = value\n
afterChange(property, oldValue, value)\n } \n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n * ^\n\n@file:Suppress("PackageDirectoryMismatch")\npackage
kotlin\n\nimport kotlin.reflect.*\n\n/**\n * An extension operator that allows delegating a read-only property of type
[V]\n * to a property reference to a property of type [V] or its subtype.\n *\n * @receiver A property reference to a
read-only or mutable property of type [V] or its subtype.\n * The reference is without a receiver, i.e. it either
references a top-level property or\n * has the receiver bound to it.\n *\n * Example:\n *\n * ```\n * class Login(val
username: String)\n * val defaultLogin = Login("Admin")\n * val defaultUsername by defaultLogin::username\n *
// equivalent to\n * val defaultUserName get() = defaultLogin.username\n * ```\n
*\n*@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>
KProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>): V {\n return get()\n}\n\n/**\n * An extension
operator that allows delegating a mutable property of type [V]\n * to a property reference to a mutable property of
the same type [V].\n *\n * @receiver A property reference to a mutable property of type [V].\n * The reference is
without a receiver, i.e. it either references a top-level property or\n * has the receiver bound to it.\n *\n * Example:\n
*\n * ```\n * class Login(val username: String, var incorrectAttemptCounter: Int = 0)\n * val defaultLogin =
Login("Admin")\n * var defaultLoginAttempts by defaultLogin::incorrectAttemptCounter\n * // equivalent to\n *
var defaultLoginAttempts: Int\n * get() = defaultLogin.incorrectAttemptCounter\n * set(value) {\n
defaultLogin.incorrectAttemptCounter = value\n } \n * ```\n
*\n*@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>
KMutableProperty0<V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n set(value)\n}\n\n/**\n *
An extension operator that allows delegating a read-only member or extension property of type [V]\n * to a
property reference to a member or extension property of type [V] or its subtype.\n *\n * @receiver A property

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reference to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of type [T].\n * Example:\n * ```\n * class Login(val username: String)\n * val Login.user by Login::username\n * // equivalent to\n * val Login.user get() = this.username\n * ```\n * \n * \n * @SinceKotlin("1.4")\n * @kotlin.internal.InlineOnly\n * public inline operator fun <T, V> KProperty1<T, V>.getValue(thisRef: T, property: KProperty<*>): V {\n * return get(thisRef)\n * }\n * \n * \n * An extension operator that allows delegating a mutable member or extension property of type [V]\n * to a property reference to a member or extension mutable property of the same type [V].\n * \n * \n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of type [T].\n * \n * \n * Example:\n * ```\n * class Login(val username: String, var incorrectAttemptCounter: Int)\n * var Login.attempts by Login::incorrectAttemptCounter\n * // equivalent to\n * var Login.attempts: Int\n * get() = this.incorrectAttemptCounter\n * set(value) { this.incorrectAttemptCounter = value }\n * ```\n * \n * \n * @SinceKotlin("1.4")\n * @kotlin.internal.InlineOnly\n * public inline operator fun <T, V> KMutableProperty1<T, V>.setValue(thisRef: T, property: KProperty<*>, value: V) {\n * set(thisRef, value)\n * }\n * \n * \n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n * \n * \n * package kotlin.random\n * \n * \n * import kotlin.math.nextDown\n * \n * \n * An abstract class that is implemented by random number generator algorithms.\n * \n * \n * The companion object [Random.Default] is the default instance of [Random].\n * \n * \n * To get a seeded instance of random generator use [Random] function.\n * \n * \n * @sample samples.random.Randoms.defaultRandom\n * \n * \n * @SinceKotlin("1.3")\n * public abstract class Random {\n * \n * \n * /**\n * * Gets the next random [bitCount] number of bits.\n * * \n * * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining upper bits are zero.\n * * \n * * @param bitCount number of bits to generate, must be in range 0..32, otherwise the behavior is unspecified.\n * * \n * * @sample samples.random.Randoms.nextBits\n * * \n * \n * public abstract fun nextBits(bitCount: Int): Int\n * \n * \n * /**\n * * Gets the next random `Int` from the random number generator.\n * * \n * * Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).\n * * \n * * @sample samples.random.Randoms.nextInt\n * * \n * \n * public open fun nextInt(): Int = nextBits(32)\n * \n * \n * /**\n * * Gets the next random non-negative `Int` from the random number generator less than the specified [until] bound.\n * * \n * * Generates an `Int` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n * * \n * * @param until must be positive.\n * * \n * * @throws IllegalArgumentException if [until] is negative or zero.\n * * \n * * @sample samples.random.Randoms.nextIntFromUntil\n * * \n * \n * public open fun nextInt(until: Int): Int = nextInt(0, until)\n * \n * \n * /**\n * * Gets the next random `Int` from the random number generator in the specified range.\n * * \n * * Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n * * \n * * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n * * \n * * @sample samples.random.Randoms.nextIntFromUntil\n * * \n * \n * public open fun nextInt(from: Int, until: Int): Int {\n * checkRangeBounds(from, until)\n * val n = until - from\n * if (n > 0 || n == Int.MIN_VALUE)\n * {\n * val rnd = if (n and -n == n) {\n * val bitCount = fastLog2(n)\n * nextBits(bitCount)\n * }\n * } else {\n * var v: Int\n * do {\n * val bits = nextInt().ushr(1)\n * v = bits % n\n * } while (bits - v + (n - 1) < 0)\n * v\n * }\n * return from + rnd\n * } else {\n * while (true) {\n * val rnd = nextInt()\n * if (rnd in from until until) return rnd\n * }\n * }\n * }\n * \n * \n * /**\n * * Gets the next random `Long` from the random number generator.\n * * \n * * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n * * \n * * @sample samples.random.Randoms.nextLong\n * * \n * \n * public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\n * \n * \n * /**\n * * Gets the next random non-negative `Long` from the random number generator less than the specified [until] bound.\n * * \n * * Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n * * \n * * @param until must be positive.\n * * \n * * @throws IllegalArgumentException if [until] is negative or zero.\n * * \n * * @sample samples.random.Randoms.nextLongFromUntil\n * * \n * \n * public open fun nextLong(until: Long): Long = nextLong(0, until)\n * \n * \n * /**\n * * Gets the next random `Long` from the random number generator in the specified

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range.\n * \n * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive)
and [until] (exclusive) bounds.\n * \n * @throws IllegalArgumentException if [from] is greater than or equal to
[until].\n * \n * @sample samples.random.Randoms.nextLongFromUntil\n * \n public open fun
nextLong(from: Long, until: Long): Long {\n    checkRangeBounds(from, until)\n    val n = until - from\n
if (n > 0) {\n        val rnd: Long\n        if (n and -n == n) {\n            val nLow = n.toInt()\n            val nHigh
= (n ushr 32).toInt()\n            rnd = when {\n                nLow != 0 -> {\n                    val bitCount =
fastLog2(nLow)\n                    // toUInt().toLong()\n                    nextBits(bitCount).toLong() and
0xFFFF_FFFF\n                    }\n                    nHigh == 1 ->{\n                        // toUInt().toLong()\n
nextInt().toLong() and 0xFFFF_FFFF\n                    } else -> {\n                        val bitCount = fastLog2(nHigh)\n
nextBits(bitCount).toLong().shl(32) + nextInt()\n                    }\n                    } else {\n
var v: Long\n                    do {\n                        val bits = nextLong().ushr(1)\n                        v = bits % n\n                    }
while (bits - v + (n - 1) < 0)\n                    rnd = v\n                    } return from + rnd\n                } else {\n                    while
(true) {\n                        val rnd = nextLong()\n                        if (rnd in from until until) return rnd\n                    }\n                }\n            }\n        }\n    }\n    /**\n    * Gets the next random [Boolean] value.\n    * \n    * @sample samples.random.Randoms.nextBoolean\n    *\n    public open fun nextBoolean(): Boolean = nextBits(1) != 0\n    /**\n    * Gets the next random [Double]
value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n    * \n    * @sample
samples.random.Randoms.nextDouble\n    *\n    public open fun nextDouble(): Double =
doubleFromParts(nextBits(26), nextBits(27))\n    /**\n    * Gets the next random non-negative `Double` from the
random number generator less than the specified [until] bound.\n    * \n    * Generates a `Double` random value
uniformly distributed between 0 (inclusive) and [until] (exclusive).\n    * \n    * @throws IllegalArgumentException
if [until] is negative or zero.\n    * \n    * @sample samples.random.Randoms.nextDoubleFromUntil\n    *\n
public open fun nextDouble(until: Double): Double = nextDouble(0.0, until)\n    /**\n    * Gets the next random
`Double` from the random number generator in the specified range.\n    * \n    * Generates a `Double` random value
uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n    * \n    * [from]
and [until] must be finite otherwise the behavior is unspecified.\n    * \n    * @throws IllegalArgumentException if
[from] is greater than or equal to [until].\n    * \n    * @sample samples.random.Randoms.nextDoubleFromUntil\n
*\n    public open fun nextDouble(from: Double, until: Double): Double {\n        checkRangeBounds(from, until)\n
        val size = until - from\n        val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n            val r1 =
nextDouble() * (until / 2 - from / 2)\n            from + r1 + r1\n        } else {\n            from + nextDouble() * size\n
        }\n        return if (r >= until) until.nextDown() else r\n    }\n    /**\n    * Gets the next random [Float] value
uniformly distributed between 0 (inclusive) and 1 (exclusive).\n    * \n    * @sample
samples.random.Randoms.nextFloat\n    *\n    public open fun nextFloat(): Float = nextBits(24) / (1 shl
24).toFloat()\n    /**\n    * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and
ending [toIndex] exclusive\n    * with random bytes.\n    * \n    * @return [array] with the subrange filled with
random bytes.\n    * \n    * @sample samples.random.Randoms.nextBytes\n    *\n    public open fun
nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n        require(fromIndex in
0..array.size && toIndex in 0..array.size) { \"fromIndex ($fromIndex) or toIndex ($toIndex) are out of range:
0..${array.size}.\" }\n        require(fromIndex <= toIndex) { \"fromIndex ($fromIndex) must be not greater than
toIndex ($toIndex).\" }\n        val steps = (toIndex - fromIndex) / 4\n        var position = fromIndex\n
repeat(steps) {\n            val v = nextInt()\n            array[position] = v.toByte()\n            array[position + 1] =
v.ushr(8).toByte()\n            array[position + 2] = v.ushr(16).toByte()\n            array[position + 3] =
v.ushr(24).toByte()\n            position += 4\n        }\n        val remainder = toIndex - position\n        val vr =
nextBits(remainder * 8)\n        for (i in 0 until remainder) {\n            array[position + i] = vr.ushr(i * 8).toByte()\n
        }\n        return array\n    }\n    /**\n    * Fills the specified byte [array] with random bytes and returns it.\n    * \n
    * @return [array] filled with random bytes.\n    * \n    * @sample samples.random.Randoms.nextBytes\n    *\n
public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n    /**\n    * Creates a
byte array of the specified [size], filled with random bytes.\n    * \n    * @sample
samples.random.Randoms.nextBytes\n    *\n    public open fun nextBytes(size: Int): ByteArray =

```

```

nextBytes(ByteArray(size))\n\n /**\n * The default random number generator.\n *\n * On JVM this
generator is thread-safe, its methods can be invoked from multiple threads.\n *\n * @sample
samples.random.Randoms.defaultRandom\n *\n companion object Default : Random() {\n\n private val
defaultRandom: Random = defaultPlatformRandom()\n\n override fun nextBits(bitCount: Int): Int =
defaultRandom.nextBits(bitCount)\n\n override fun nextInt(): Int = defaultRandom.nextInt()\n\n override fun
nextInt(until: Int): Int = defaultRandom.nextInt(until)\n\n override fun nextInt(from: Int, until: Int): Int =
defaultRandom.nextInt(from, until)\n\n override fun nextLong(): Long = defaultRandom.nextLong()\n\n override fun
nextLong(until: Long): Long = defaultRandom.nextLong(until)\n\n override fun nextLong(from:
Long, until: Long): Long = defaultRandom.nextLong(from, until)\n\n override fun nextBoolean(): Boolean =
defaultRandom.nextBoolean()\n\n override fun nextDouble(): Double = defaultRandom.nextDouble()\n\n override fun
nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\n\n override fun
nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\n\n override fun
nextFloat(): Float = defaultRandom.nextFloat()\n\n override fun nextBytes(array: ByteArray): ByteArray =
defaultRandom.nextBytes(array)\n\n override fun nextBytes(size: Int): ByteArray =
defaultRandom.nextBytes(size)\n\n override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int):
ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)\n } }\n\n/**\n * Returns a repeatable random
number generator seeded with the given [seed] `Int` value.\n *\n * Two generators with the same seed produce the
same sequence of values within the same version of Kotlin runtime.\n *\n * *Note:* Future versions of Kotlin may
change the algorithm of this seeded number generator so that it will return\n * a sequence of values different from
the current one for a given seed.\n *\n * On JVM the returned generator is NOT thread-safe. Do not invoke it from
multiple threads without proper synchronization.\n *\n * @sample samples.random.Randoms.seededRandom\n
*\n @SinceKotlin("1.3")\npublic fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))\n\n/**\n * Returns a repeatable random number generator seeded with the given [seed] `Long` value.\n *\n * Two generators
with the same seed produce the same sequence of values within the same version of Kotlin runtime.\n *\n * *Note:*
Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return\n * a
sequence of values different from the current one for a given seed.\n *\n * On JVM the returned generator is NOT
thread-safe. Do not invoke it from multiple threads without proper synchronization.\n *\n * @sample
samples.random.Randoms.seededRandom\n *\n @SinceKotlin("1.3")\npublic fun Random(seed: Long): Random =
XorWowRandom(seed.toInt(), seed.shr(32).toInt())\n\n\n/**\n * Gets the next random `Int` from the random
number generator in the specified [range].\n *\n * Generates an `Int` random value uniformly distributed in the
specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws
IllegalArgumentException if [range] is empty.\n *\n @SinceKotlin("1.3")\npublic fun Random.nextInt(range:
IntRange): Int = when {\n range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty
range: $range")\n range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)\n range.first >
Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n else -> nextInt()\n }\n\n\n/**\n * Gets the next random
`Long` from the random number generator in the specified [range].\n *\n * Generates a `Long` random value
uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n
*\n * @throws IllegalArgumentException if [range] is empty.\n *\n @SinceKotlin("1.3")\npublic fun
Random.nextLong(range: LongRange): Long = when {\n range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n range.last < Long.MAX_VALUE ->
nextLong(range.first, range.last + 1)\n range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) +
1\n else -> nextLong()\n }\n\n\ninternal expect fun defaultPlatformRandom(): Random\n\ninternal expect fun
doubleFromParts(hi26: Int, low27: Int): Double\n\n @OptIn(ExperimentalStdlibApi::class)\n\ninternal fun
fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()\n\n\n/** Takes upper [bitCount] bits (0..32) from this
number. *\n\ninternal fun Int.takeUpperBits(bitCount: Int): Int =\n this.ushr(32 - bitCount) and (-
bitCount).shr(31)\n\n\ninternal fun checkRangeBounds(from: Int, until: Int) = require(until > from) {\n
boundsErrorMessage(from, until) }\n\ninternal fun checkRangeBounds(from: Long, until: Long) = require(until >
from) {\n boundsErrorMessage(from, until) }\n\ninternal fun checkRangeBounds(from: Double, until: Double) =

```



```

require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun boundsErrorMessage(from: Any, until:
Any) = \"Random range is empty: [$from, $until].\"*\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *^\n\npackage kotlin.random\n\n\n/**\n * Gets the next random [UInt]
from the random number generator.\n *\n * Generates a [UInt] random value uniformly distributed between
[UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\n
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUInt(): UInt =
nextInt().toUInt()\n\n\n/**\n * Gets the next random [UInt] from the random number generator less than the specified
[until] bound.\n *\n * Generates a [UInt] random value uniformly distributed between `0` (inclusive) and the
specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUInt(until: UInt): UInt =
nextUInt(0u, until)\n\n\n/**\n * Gets the next random [UInt] from the random number generator in the specified
range.\n *\n * Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and
[until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUInt(from: UInt, until: UInt):
UInt {\n    checkUIntRangeBounds(from, until)\n    val signedFrom = from.toInt() xor Int.MIN_VALUE\n    val
signedUntil = until.toInt() xor Int.MIN_VALUE\n    val signedResult = nextInt(signedFrom, signedUntil) xor
Int.MIN_VALUE\n    return signedResult.toUInt()\n}\n\n\n/**\n * Gets the next random [UInt] from the random
number generator in the specified [range].\n *\n * Generates a [UInt] random value uniformly distributed in the
specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws
IllegalArgumentException if [range] is empty.\n *\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
fun Random.nextUInt(range: UIntRange): UInt = when {\n    range.isEmpty() -> throw
IllegalArgumentException(\"Cannot get random in empty range: $range\")\n    range.last < UInt.MAX_VALUE ->
nextUInt(range.first, range.last + 1u)\n    range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) +
1u\n    else -> nextUInt()\n}\n\n\n/**\n * Gets the next random [ULong] from the random number generator.\n *\n *
Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and
[ULong.MAX_VALUE] (inclusive).\n *\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
Random.nextULong(): ULong = nextLong().toULong()\n\n\n/**\n * Gets the next random [ULong] from the random
number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly
distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws
IllegalArgumentException if [until] is zero.\n *\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n\n/**\n * Gets the next random [ULong]
from the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly
distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws
IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextULong(from: ULong, until:
ULong): ULong {\n    checkULongRangeBounds(from, until)\n    val signedFrom = from.toLong() xor
Long.MIN_VALUE\n    val signedUntil = until.toLong() xor Long.MIN_VALUE\n    val signedResult =
nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n    return signedResult.toULong()\n}\n\n\n/**\n * Gets
the next random [ULong] from the random number generator in the specified [range].\n *\n * Generates a [ULong]
random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive`
inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextULong(range: ULongRange):
ULong = when {\n    range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range:
$range\")\n    range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)\n    range.first >
ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u\n    else -> nextULong()\n}\n\n\n/**\n * Fills
the specified unsigned byte [array] with random bytes and returns it.\n *\n * @return [array] filled with random
bytes.\n *\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array:

```

```

ByteArray): ByteArray {
    nextBytes(array: ByteArray())
    return array
}

/**
 * Creates an unsigned
 byte array of the specified [size], filled with random bytes.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUBytes(size: Int): ByteArray
= nextBytes(size).asByteArray()

/**
 * Fills a subrange of the specified `UByte` [array] starting from
 [fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.
 */
@return [array] with the
 subrange filled with random bytes.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
Random.nextUBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {
    nextBytes(array.asByteArray(), fromIndex, toIndex)
    return
array
}

@ExperimentalUnsignedTypes
internal fun checkUIntRangeBounds(from: UInt, until: UInt) =
require(until > from) { boundsErrorMessage(from, until) }

@ExperimentalUnsignedTypes
internal fun
checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from, until)
}

/**
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 source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.random

/**
 * Random number generator, using Marsaglia's "xorwow" algorithm
 */
 * Cycles after 2^192 - 2^32 repetitions.
 */
 * For more details, see Marsaglia, George (July 2003). "Xorshift
 RNGs". Journal of Statistical Software. 8 (14). doi:10.18637/jss.v008.i14
 */
 * Available at
 https://www.jstatsoft.org/v08/i14/paper
 */
internal class XorWowRandom() {
    private var x: Int,
    private var y: Int,
    private var z: Int,
    private var w: Int,
    private var v: Int,
    private var
addend: Int
) : Random() {
    internal constructor(seed1: Int, seed2: Int) :
        this(seed1, seed2, 0, 0,
seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))
    init {
        require((x or y or z or w or v) != 0) { "Initial state
must have at least one non-zero element." }
        // some trivial seeds can produce several values with zeroes in
upper bits, so we discard first 64
        repeat(64) { nextInt() }
    }
    override fun nextInt(): Int {
        //
Equivalent to the xorwow algorithm
        // From Marsaglia, G. 2003. Xorshift RNGs. J. Statis. Soft. 8, 14, p. 5
        var t = x
        t = t xor (t ushr 2)
        x = y
        y = z
        z = w
        val v0 = v
        w = v0
        t = (
xor (t shl 1)) xor v0 xor (v0 shl 4)
        v = t
        addend += 362437
        return t + addend
    }
    override
fun nextBits(bitCount: Int): Int =
    nextInt().takeUpperBits(bitCount)
}

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 Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("RangesKt")
package
kotlin.ranges

/**
 * Represents a range of [Comparable] values.
 */
private open class ComparableRange<T> :
Comparable<T> {
    override val start: T,
    override val endInclusive: T
) : ClosedRange<T> {
    override
fun equals(other: Any?): Boolean {
        return other is ComparableRange<*> && (isEmpty() && other.isEmpty()
||
start == other.start && endInclusive == other.endInclusive)
    }
    override fun hashCode(): Int
{
        return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()
    }
    override fun
toString(): String = "$start..$endInclusive"
}

/**
 * Creates a range from this [Comparable] value to the
 specified [that] value.
 */
 * This value needs to be smaller than or equal to [that] value, otherwise the returned
 range will be empty.
 */
 * @sample samples.ranges.Ranges.rangeFromComparable
 */
public operator fun <T> :
Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)

/**
 * Represents a
 range of floating point numbers.
 */
 * Extends [ClosedRange] interface providing custom operation
 [lessThanOrEquals] for comparing values of range domain type.
 */
 * This interface is implemented by floating
 point ranges returned by [Float.rangeTo] and [Double.rangeTo] operators to
 achieve IEEE-754 comparison order
 instead of total order of floating point numbers.
 */
@SinceKotlin("1.1")
public interface
ClosedFloatingPointRange<T> : Comparable<T>> : ClosedRange<T> {
    override fun contains(value: T): Boolean
= lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)
    override fun isEmpty(): Boolean =
!lessThanOrEquals(start, endInclusive)
}

/**
 * Compares two values of range domain type and returns true
 if first is less than or equal to second.
 */
fun lessThanOrEquals(a: T, b: T): Boolean
}

/**
 * A
 closed range of values of type `Double`.
 */
 * Numbers are compared with the ends of this range according to
 IEEE-754.
 */
private class ClosedDoubleRange(
    start: Double,
    endInclusive: Double
) :

```

```

ClosedFloatingPointRange<Double> {\n  private val _start = start\n  private val _endInclusive = endInclusive\n  override val start: Double get() = _start\n  override val endInclusive: Double get() = _endInclusive\n\n  override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\n\n  override fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive\n\n  override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n  override fun equals(other: Any?): Boolean {\n    return other is ClosedDoubleRange && (isEmpty() && other.isEmpty() ||\n      _start == other._start && _endInclusive == other._endInclusive)\n  }\n\n  override fun hashCode(): Int {\n    return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n  }\n\n  override fun toString(): String = \"\$_start..\$_endInclusive\"\n}\n\n/**\n * Creates a range from this [Double] value to the specified [that] value.\n * Numbers are compared with the ends of this range according to IEEE-754.\n * @sample samples.ranges.Ranges.rangeFromDouble\n */\n\n@SinceKotlin("1.1")\npublic operator fun Double.rangeTo(that: Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)\n\n/**\n * A closed range of values of type `Float`.\n * Numbers are compared with the ends of this range according to IEEE-754.\n */\nprivate class ClosedFloatRange(\n  start: Float,\n  endInclusive: Float\n) : ClosedFloatingPointRange<Float> {\n  private val _start = start\n  private val _endInclusive = endInclusive\n\n  override val start: Float get() = _start\n  override val endInclusive: Float get() = _endInclusive\n\n  override fun lessThanOrEquals(a: Float, b: Float): Boolean = a <= b\n\n  override fun contains(value: Float): Boolean = value >= _start && value <= _endInclusive\n\n  override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n  override fun equals(other: Any?): Boolean {\n    return other is ClosedFloatRange && (isEmpty() && other.isEmpty() ||\n      _start == other._start && _endInclusive == other._endInclusive)\n  }\n\n  override fun hashCode(): Int {\n    return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n  }\n\n  override fun toString(): String = \"\$_start..\$_endInclusive\"\n}\n\n/**\n * Creates a range from this [Float] value to the specified [that] value.\n * Numbers are compared with the ends of this range according to IEEE-754.\n * @sample samples.ranges.Ranges.rangeFromFloat\n */\n\n@SinceKotlin("1.1")\npublic operator fun Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)\n\n/**\n * Returns `true` if this iterable range contains the specified [element].\n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, R> R.contains(element: T?): Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\n  element != null && contains(element)\n\ninternal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\n  if (!isPositive) throw IllegalArgumentException("Step must be positive, was: $step.")\n}\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("KClasses")\n@file:Suppress("UNCHECKED_CAST")\n\npackage kotlin.reflect\n\nimport kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Casts the given [value] to the class represented by this [KClass] object.\n * Throws an exception if the value is `null` or if it is not an instance of this class.\n * This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.\n * @see [KClass.isInstance]\n * @see [KClass.safeCast]\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResolution\nfun <T : Any> KClass<T>.cast(value: Any?): T {\n  if (!isInstance(value)) throw ClassCastException("Value cannot be cast to $qualifiedOrSimpleName")\n  return value as T\n}\n\n// TODO: replace with qualifiedName when it is fully supported in K/JS\ninternal expect val KClass<*>.qualifiedOrSimpleName: String?\n\n/**\n * Casts the given [value] to the class represented by this [KClass] object.\n * Returns `null` if the value is `null` or if it is not an instance of this class.\n * This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.\n * @see [KClass.isInstance]\n * @see [KClass.cast]\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResolution\nfun <T : Any> KClass<T>.safeCast(value: Any?): T? {\n  return if (isInstance(value)) value as T else null\n}\n\n/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmStatic\n\n/**\n * Represents

```

a type projection. Type projection is usually the argument to another type in a type usage. For example, in the type `Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`.

Type projection is either the star projection, or an entity consisting of a specific type plus optional variance. See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections) for more information.

```

@SinceKotlin("1.1")
public data class KTypeProjection
constructor(
    /**
     * The use-site variance specified in the projection, or `null` if this is a star projection.
     */
    public val variance: KVariance?,
    /**
     * The type specified in the projection, or `null` if this is a star projection.
     */
    public val type: KType?) {
    init {
        require((variance == null) == (type == null))
    }
    if (variance == null)
        "Star projection must have no type specified."
    else
        "The projection variance $variance requires type to be specified."
}

override fun toString():
String = when (variance) {
    null -> "*"
    KVariance.INVARIANT -> type.toString()
    KVariance.IN -> "in $type"
    KVariance.OUT -> "out $type"
}
public companion object {
    // provided for compiler access
    @JvmField
    @PublishedApi
    internal val star: KTypeProjection =
    KTypeProjection(null, null)
    /**
     * Star projection, denoted by the `*` character.
     * For example,
     * in the type `KClass<*>`, `*` is the star projection.
     * See the [Kotlin language
     * documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)
     * for more
     * information.
     */
    public val STAR: KTypeProjection get() = star
    /**
     * Creates an
     * invariant projection of a given type. Invariant projection is just the type itself,
     * without any use-site variance
     * modifiers applied to it.
     * For example, in the type `Set<String>`, `String` is an invariant projection of the type
     * represented by the class `String`.
     */
    @JvmStatic
    public fun invariant(type: KType):
    KTypeProjection =
    KTypeProjection(KVariance.INVARIANT, type)
    /**
     * Creates a
     * contravariant projection of a given type, denoted by the `in` modifier applied to a type.
     * For example, in the
     * type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class
     * `Number`.
     */
    @JvmStatic
    public fun contravariant(type: KType): KTypeProjection =
    KTypeProjection(KVariance.IN, type)
    /**
     * Creates a covariant projection of a given type, denoted
     * by the `out` modifier applied to a type.
     * For example, in the type `Array<out Number>`, `out Number` is a
     * covariant projection of the type of class `Number`.
     */
    @JvmStatic
    public fun covariant(type:
    KType): KTypeProjection =
    KTypeProjection(KVariance.OUT, type)
}
}
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.reflect

/**
 * Represents variance applied to a type parameter on the declaration site (*declaration-site variance*),
 * or to a type
 * in a projection (*use-site variance*).
 * See the [Kotlin language
 * documentation](https://kotlinlang.org/docs/reference/generics.html#variance)
 * for more information.
 *
 * @see [KTypeParameter.variance]
 * @see [KTypeProjection]
 */
@SinceKotlin("1.1")
enum class KVariance {
    /**
     * The affected type parameter or type is *invariant*, which means it has no variance applied to it.
     */
    INVARIANT,
    /**
     * The affected type parameter or type is *contravariant*. Denoted by the `in`
     * modifier in the source code.
     */
    IN,
    /**
     * The affected type parameter or type is *covariant*.
     * Denoted by the `out` modifier in the source code.
     */
    OUT,
}
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 * and Kotlin Programming Language contributors.
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 * that can be found in the license/LICENSE.txt file.
 */
package kotlin.reflect

/**
 * Returns a runtime
 * representation of the given reified type [T] as an instance of [KType].
 */
@Suppress("unused") // KT-12448
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <reified T> typeOf(): KType =
throw UnsupportedOperationException("This function is implemented as an intrinsic on all supported
platforms.")
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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
package
kotlin.text

/**
 * An object to which char sequences and values can be appended.
 */
expect interface
Appendable {
    /**
     * Appends the specified character [value] to this Appendable and returns this instance.
     */
}

```

```

*\n * @param value the character to append.\n *^\n fun append(value: Char): Appendable\n\n /**\n * Appends the specified character sequence [value] to this Appendable and returns this instance.\n *\n * @param value the character sequence to append. If [value] is `null`, then the four characters `"\null"` are appended to this Appendable.\n *^\n fun append(value: CharSequence?): Appendable\n\n /**\n * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended. If [value] is `null`,\n * then characters are appended as if [value] contained the four characters `"\null"`.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n *^\n fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable\n}\n\n/**\n * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T : Appendable> T.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): T {\n\n @Suppress("UNCHECKED_CAST")\n return append(value, startIndex, endIndex) as T\n}\n\n/**\n * Appends all arguments to the given [Appendable].\n */\npublic fun <T : Appendable> T.append(vararg value: CharSequence?): T {\n for (item in value)\n append(item)\n return this\n}\n\n/**\n * Appends a line feed character (`\n`) to this Appendable. *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(): Appendable = append("\n")\n\n/**\n * Appends value to the given Appendable and a line feed character (`\n`) after it. *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()\n\n/**\n * Appends value to the given Appendable and a line feed character (`\n`) after it. *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(value: Char): Appendable = append(value).appendLine()\n\ninternal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence?)) {\n when {\n transform != null -> append(transform(element))\n element is CharSequence? -> append(element)\n element is Char -> append(element)\n else -> append(element.toString())\n }\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CharsKt")\n\npackage kotlin.text\n\n/**\n * Returns the numeric value of the decimal digit that this Char represents.\n * Throws an exception if this Char is not a valid decimal digit.\n *\n * A Char is considered to represent a decimal digit if the Char is one of the ASCII decimal digits '0' through '9'. In this case, `this.code - '0'.code` is returned.\n *\n * @sample samples.text.Chars.digitToInt\n *\n@ExperimentalStdlibApi\n@SinceKotlin("1.4")\npublic fun Char.digitToInt(): Int {\n if (this in '0'..'9') {\n return this - '0'\n }\n throw IllegalArgumentException("Char $this is not a decimal digit")\n}\n\n/**\n * Returns the numeric value of the digit that this Char represents in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36` or if this Char is not a valid digit in the specified [radix].\n *\n * A Char is considered to represent a digit in the specified [radix] if at least one of the following is true:\n * - The Char is one of the ASCII decimal digits '0' through '9' and its [code] is less than `radix + '0'.code`. In this case, `this.code - '0'.code` is returned.\n * - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.\n * - The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.\n *\n * @sample samples.text.Chars.digitToInt\n *\n@ExperimentalStdlibApi\n@SinceKotlin("1.4")\npublic fun Char.digitToInt(radix: Int): Int {\n return

```

```

digitToIntOrNull(radix) ?: throw IllegalArgumentException("\Char $this is not a digit in the given
radix=$radix")\n\n/**\n *\n * Returns the numeric value of the decimal digit that this Char represents, or `null` if
this Char is not a valid decimal digit.\n *\n * A Char is considered to represent a decimal digit if the Char is one of
the ASCII decimal digits '0' through '9'.\n *\n * In this case, `this.code - '0'.code` is returned.\n *\n * @sample
samples.text.Chars.digitToIntOrNull\n *\n @ExperimentalStdlibApi\n @SinceKotlin("1.4")\n public fun
Char.digitToIntOrNull(): Int? {\n if (this in '0'..'9') {\n return this - '0'\n }\n return null\n }\n\n/**\n *\n * Returns the numeric value of the digit that this Char represents in the specified [radix], or `null` if this Char is not a
valid digit in the specified [radix].\n *\n * Throws an exception if the [radix] is not in the range `2..36`.\n *\n * A Char
is considered to represent a digit in the specified [radix] if at least one of the following is true:\n *\n * - The Char is one
of the ASCII decimal digits '0' through '9' and its [code] is less than `radix + '0'.code`. In this case, `this.code -
'0'.code` is returned.\n *\n * - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than
`radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.\n *\n * - The Char is one of the lowercase
Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is
returned.\n *\n * @sample samples.text.Chars.digitToIntOrNull\n
*\n @ExperimentalStdlibApi\n @SinceKotlin("1.4")\n public fun Char.digitToIntOrNull(radix: Int): Int? {\n if
(radix in 2..36) {\n throw IllegalArgumentException("Invalid radix: $radix. Valid radix values are in range
2..36")\n }\n if (this in '0'..'9') {\n val digit = this - '0'\n return if (digit < radix) digit else null\n }\n
val a = if (this <= 'Z') 'A' else 'a'\n val digit = 10 + (this - a)\n return if (digit in 10 until radix) digit else
null\n }\n\n/**\n *\n * Returns the Char that represents this decimal digit.\n *\n * Throws an exception if this value is not in
the range `0..9`.\n *\n * If this value is in `0..9`, the decimal digit Char with code `0'.code + this` is returned.\n *\n *
@sample samples.text.Chars.digitToChar\n *\n @ExperimentalStdlibApi\n @SinceKotlin("1.4")\n public fun
Int.digitToChar(): Char {\n if (this in 0..9) {\n return '0' + this\n }\n throw IllegalArgumentException("\Int
$this is not a decimal digit")\n }\n\n/**\n *\n * Returns the Char that represents this numeric digit value in the specified
[radix].\n *\n * Throws an exception if the [radix] is not in the range `2..36` or if this value is not in the range `0
until
radix`.\n *\n * If this value is less than `10`, the decimal digit Char with code `0'.code + this` is returned.\n *\n
Otherwise, the uppercase Latin letter with code `A'.code + this - 10` is returned.\n *\n * @sample
samples.text.Chars.digitToChar\n *\n @ExperimentalStdlibApi\n @SinceKotlin("1.4")\n public fun
Int.digitToChar(radix: Int): Char {\n if (radix !in 2..36) {\n throw IllegalArgumentException("Invalid radix:
$radix. Valid radix values are in range 2..36")\n }\n if (this < 0 || this >= radix) {\n throw
IllegalArgumentException("Digit $this does not represent a valid digit in radix $radix")\n }\n return if (this <
10) {\n '0' + this\n } else {\n 'A' + this - 10\n }\n }\n\n/**\n *\n * Converts this character to lower case using
Unicode mapping rules of the invariant locale.\n *\n @public expect fun Char.toLowerCase(): Char\n\n/**\n *\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function
performs one-to-one character mapping.\n *\n * To support one-to-many character mapping use the [toLowerCase]
function.\n *\n * If this character has no mapping equivalent, the character itself is returned.\n *\n * @sample
samples.text.Chars.toLowerCase\n *\n @SinceKotlin("1.4")\n @ExperimentalStdlibApi\n public expect fun
Char.toLowerCaseChar(): Char\n\n/**\n *\n * Converts this character to lower case using Unicode mapping rules of the
invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned
string can be greater than one.\n *\n * For example, `"\u0130".toLowerCase()` returns `"\u0069\u0307"`,\n *\n * where
`"\u0130` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (`\u0130`).\n *\n * If this character has
no lower case mapping, the result of `toString()` of this char is returned.\n *\n * @sample
samples.text.Chars.toLowerCase\n *\n @SinceKotlin("1.4")\n @ExperimentalStdlibApi\n public expect fun
Char.toLowerCase(): String\n\n/**\n *\n * Converts this character to upper case using Unicode mapping rules of the
invariant locale.\n *\n @public expect fun Char.toUpperCase(): Char\n\n/**\n *\n * Converts this character to upper case
using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n
*\n * To support one-to-many character mapping use the [toUpperCase] function.\n *\n * If this character has no mapping
equivalent, the character itself is returned.\n *\n * @sample samples.text.Chars.uppercase\n
*\n @SinceKotlin("1.4")\n @ExperimentalStdlibApi\n public expect fun Char.toUpperCaseChar(): Char\n\n/**\n *\n

```

Converts this character to upper case using Unicode mapping rules of the invariant locale.

`* This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.`

`* For example, '\uFB00'.uppercase() returns '\u0046\u0046', where '\uFB00' is the LATIN SMALL LIGATURE FF character ('\ufb00').`

`* If this character has no upper case mapping, the result of 'toString() of this char is returned.`

`* @sample samples.text.Chars.uppercase`

`*\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic expect fun Char.uppercase(): String\n\n/**\n * Concatenates this Char and a String.\n * @sample samples.text.Chars.plus\n *\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun Char.plus(other: String): String = this.toString() + other\n\n/**\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n * Two characters are considered the same ignoring case if at least one of the following is `true`:\n * - The two characters are the same (as compared by the == operator)\n * - Applying the method [uppercaseChar] to each character produces the same result\n * - Applying the method [lowercaseChar] to each character produces the same result\n * @sample samples.text.Chars.equals\n */\n@OptIn(ExperimentalStdlibApi::class)\npublic fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {\n if (this == other) return true\n if (!ignoreCase) return false\n if (this.uppercaseChar() == other.uppercaseChar()) return true\n if (this.lowercaseChar() == other.lowercaseChar()) return true\n return false\n}\n\n/**\n * Returns `true` if this character is a Unicode surrogate code unit.\n */\npublic fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE\n"/>**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage kotlin.text\n\n/**\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes the first and the last lines if they are blank (notice difference blank vs empty).\n * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\n * Doesn't preserve the original line endings.\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is ` (pipe character).\n * @sample samples.text.Strings.trimMargin\n * @see trimIndent\n * @see kotlin.text.isWhitespace\n */\npublic fun String.trimMargin(marginPrefix: String = "`"): String =\n replaceIndentByMargin("`", marginPrefix)\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is ` (pipe character).\n */\npublic fun String.replaceIndentByMargin(newIndent: String = "`", marginPrefix: String = "`"): String {\n require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank string." }\n val lines = lines()\n return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line -> val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\n when {\n firstNonWhitespaceIndex == -1 -> null\n line.startsWith(marginPrefix, firstNonWhitespaceIndex) -> line.substring(firstNonWhitespaceIndex + marginPrefix.length)\n else -> null\n }\n })\n}\n\n/**\n * Detects a common minimal indent of all the input lines, removes it from every line and also removes the first and the last lines if they are blank (notice difference blank vs empty).\n * Note that blank lines do not affect the detected indent level.\n * In case if there are non-blank lines with no leading whitespace characters (no indent at all) then the common indent is 0, and therefore this function doesn't change the indentation.\n * Doesn't preserve the original line endings.\n * @sample samples.text.Strings.trimIndent\n * @see trimMargin\n * @see kotlin.text.isBlank\n */\npublic fun String.trimIndent(): String = replaceIndent("`")\n\n/**\n * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].\n */\npublic fun String.replaceIndent(newIndent: String = "`"): String {\n val lines = lines()\n val minCommonIndent = lines.filter(String::isNotBlank).map(String::indentWidth).minOrNull() ?: 0\n return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })\n}\n\n/**\n * Prepends [indent] to every line of the original string.\n * Doesn't preserve the original line endings.\n */\npublic fun`

```

String.prependIndent(indent: String = "\n"): String =\n    lineSequence()\n        .map { \n            when { \n
it.isBlank() -> { \n                when { \n                    it.length < indent.length -> indent \n                        else -> it \n
                } \n            } \n            else -> indent + it \n        } \n    }.joinToString("\n\n")\n\nprivate fun
String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }\n\nprivate fun
getIndentFunction(indent: String) = when { \n    indent.isEmpty() -> { line: String -> line } \n    else -> { line: String -
> indent + line } \n } \n\nprivate inline fun List<String>.reindent(\n    resultSizeEstimate: Int, \n    indentAddFunction:
(String) -> String, \n    indentCutFunction: (String) -> String?): String { \n    val lastIndex = lastIndex \n    return
mapIndexedNotNull { index, value -> \n        if ((index == 0 || index == lastIndex) && value.isBlank()) \n
null \n        else \n            indentCutFunction(value)?.let(indentAddFunction)?: value \n    } \n
}.joinTo(StringBuilder(resultSizeEstimate), "\n\n").toString()\n\n"/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Defines names for
Unicode symbols used in proper Typography.\n */\npublic object Typography {\n    /** The character &#x22;
\u2013 quotation mark */\n    public const val quote: Char = "\u0022" \n    /** The character &#x24; \u2013 dollar
sign */\n    public const val dollar: Char = "\u0024" \n    /** The character &#x26; \u2013 ampersand */\n    public
const val amp: Char = "\u0026" \n    /** The character &#x3C; \u2013 less-than sign */\n    public const val less:
Char = "\u003C" \n    /** The character &#x3E; \u2013 greater-than sign */\n    public const val greater: Char =
"\u003E" \n    /** The non-breaking space character */\n    public const val nbsp: Char = "\u00A0" \n    /** The
character &#xD7; */\n    public const val times: Char = "\u00D7" \n    /** The character &#xA2; */\n    public const
val cent: Char = "\u00A2" \n    /** The character &#xA3; */\n    public const val pound: Char = "\u00A3" \n    /** The
character &#xA7; */\n    public const val section: Char = "\u00A7" \n    /** The character &#xA9; */\n    public const
val copyright: Char = "\u00A9" \n    /** The character &#xAB; */\n    public const val leftGuillemete: Char =
"\u00AB" \n    /** The character &#xBB; */\n    public const val rightGuillemete: Char = "\u00BB" \n    /** The
character &#xAE; */\n    public const val registered: Char = "\u00AE" \n    /** The character &#xB0; */\n    public
const val degree: Char = "\u00B0" \n    /** The character &#xB1; */\n    public const val plusMinus: Char =
"\u00B1" \n    /** The character &#xB6; */\n    public const val paragraph: Char = "\u00B6" \n    /** The character
&#xB7; */\n    public const val middleDot: Char = "\u00B7" \n    /** The character &#xBD; */\n    public const val
half: Char = "\u00BD" \n    /** The character &#x2013; */\n    public const val ndash: Char = "\u2013" \n    /** The
character &#x2014; */\n    public const val mdash: Char = "\u2014" \n    /** The character &#x2018; */\n    public
const val leftSingleQuote: Char = "\u2018" \n    /** The character &#x2019; */\n    public const val rightSingleQuote:
Char = "\u2019" \n    /** The character &#x201A; */\n    public const val lowSingleQuote: Char = "\u201A" \n    /**
The character &#x201C; */\n    public const val leftDoubleQuote: Char = "\u201C" \n    /** The character &#x201D;
*/\n    public const val rightDoubleQuote: Char = "\u201D" \n    /** The character &#x201E; */\n    public const val
lowDoubleQuote: Char = "\u201E" \n    /** The character &#x2020; */\n    public const val dagger: Char =
"\u2020" \n    /** The character &#x2021; */\n    public const val doubleDagger: Char = "\u2021" \n    /** The
character &#x2022; */\n    public const val bullet: Char = "\u2022" \n    /** The character &#x2026; */\n    public
const val ellipsis: Char = "\u2026" \n    /** The character &#x2032; */\n    public const val prime: Char = "\u2032" \n
/** The character &#x2033; */\n    public const val doublePrime: Char = "\u2033" \n    /** The character &#x20AC;
*/\n    public const val euro: Char = "\u20AC" \n    /** The character &#x2122; */\n    public const val tm: Char =
"\u2122" \n    /** The character &#x2248; */\n    public const val almostEqual: Char = "\u2248" \n    /** The character
&#x2260; */\n    public const val notEqual: Char = "\u2260" \n    /** The character &#x2264; */\n    public const val
lessOrEqual: Char = "\u2264" \n    /** The character &#x2265; */\n    public const val greaterOrEqual: Char =
"\u2265" \n } \n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n
package kotlin.text\n\n/**\n * Represents a collection of captured groups in a single match of a regular
expression.\n */\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the
regular expression.\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the
entire match.\n */\n * An element of the collection at the particular index can be `null`, \n */\n * if the corresponding

```



```

group in the regular expression is optional and\n * there was no match captured by that group.\n */\npublic interface
MatchGroupCollection : Collection<MatchGroup?> {\n\n /** Returns a group with the specified [index].\n *\n * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.\n *\n * Groups are indexed from 1 to the count of groups in the regular expression. A group with the index 0\n * corresponds to the entire match.\n */\n public operator fun get(index: Int): MatchGroup?\n}\n\n/**\n * Extends [MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.\n */\n@SinceKotlin("1.1")\npublic interface MatchNamedGroupCollection : MatchGroupCollection {\n /**\n * Returns a named group with the specified [name].\n * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.\n * @throws IllegalArgumentException if there is no group with the specified [name] defined in the regex pattern.\n * @throws UnsupportedOperationException if getting named groups isn't supported on the current platform.\n */\n public operator fun get(name: String): MatchGroup?\n}\n\n/**\n * Represents the results from a single regular expression match.\n */\npublic interface MatchResult {\n /**\n * The range of indices in the original string where match was captured.\n */\n public val range: IntRange\n /**\n * The substring from the input string captured by this match.\n */\n public val value: String\n /**\n * A collection of groups matched by the regular expression.\n *\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n *\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n */\n public val groups: MatchGroupCollection\n /**\n * A list of matched indexed group values.\n *\n * This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n *\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n *\n * If the group in the regular expression is optional and there were no match captured by that group,\n * corresponding item in [groupValues] is an empty string.\n *\n * @sample\n samples.text.Regexps.matchDestructuringToGroupValues\n */\n public val groupValues: List<String>\n\n /**\n * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of group values.\n *\n * component1 corresponds to the value of the first group, component2 \u2014 of the second, and so on.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public val destructured: Destructured\n\n get() = Destructured(this)\n\n /**\n * Returns a new [MatchResult] with the results for the next match, starting at the position\n * at which the last match ended (at the character after the last matched character).\n */\n public fun next(): MatchResult?\n\n /**\n * Provides components for destructuring assignment of group values.\n *\n * [component1] corresponds to the value of the first group, [component2] \u2014 of the second, and so on.\n *\n * If the group in the regular expression is optional and there were no match captured by that group,\n * corresponding component value is an empty string.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public class Destructured\n\n internal constructor(public val match: MatchResult) {\n\n @kotlin.internal.InlineOnly\n public operator inline fun component1(): String = match.groupValues[1]\n\n @kotlin.internal.InlineOnly\n public operator inline fun component2(): String = match.groupValues[2]\n\n @kotlin.internal.InlineOnly\n public operator inline fun component3(): String = match.groupValues[3]\n\n @kotlin.internal.InlineOnly\n public operator inline fun component4(): String = match.groupValues[4]\n\n @kotlin.internal.InlineOnly\n public operator inline fun component5(): String = match.groupValues[5]\n\n @kotlin.internal.InlineOnly\n public operator inline fun component6(): String = match.groupValues[6]\n\n @kotlin.internal.InlineOnly\n public operator inline fun component7(): String = match.groupValues[7]\n\n @kotlin.internal.InlineOnly\n public operator inline fun component8(): String = match.groupValues[8]\n\n @kotlin.internal.InlineOnly\n public operator inline fun component9(): String = match.groupValues[9]\n\n @kotlin.internal.InlineOnly\n public operator inline fun component10(): String = match.groupValues[10]\n}\n\n /**\n * Returns destructured group values as a list of strings.\n *\n * First value in the returned list corresponds to the value of the first group, and so on.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)\n }\n }", "\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the

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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.time\n\nimport\nkotlin.contracts.*\nimport kotlin.math.abs\n\n@OptIn(ExperimentalTime::class)\nprivate inline val storageUnit\nget() = DurationUnit.NANOSECONDS\n\n/**\n * Represents the amount of time one instant of time is away from\nanother instant.\n *\n * A negative duration is possible in a situation when the second instant is earlier than the first\none.\n *\n * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\n *\n * To\nconstruct a duration use either the extension function [toDuration],\n *\n * or the extension properties [hours],\n[minutes], [seconds], and so on,\n *\n * available on [Int], [Long], and [Double] numeric types.\n *\n * To get the value\nof this duration expressed in a particular [duration units][DurationUnit]\n *\n * use the functions [toInt], [toLong], and\n[toDouble]\n *\n * or the properties [inHours], [inMinutes], [inSeconds], [inNanoseconds], and so on.\n\n*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\npublic inline class Duration internal constructor(internal val value: Double) :\nComparable<Duration> {\n// TODO: backend fails on init block, wait for KT-28055\n//  init {\n//\nrequire(_value.isNaN().not())\n//  }\n\n  companion object {\n    /** The duration equal to exactly 0 seconds.\n    *\n    public val ZERO: Duration = Duration(0.0)\n    *\n    /** The duration whose value is positive infinity. It is\nuseful for representing timeouts that should never expire.\n    *\n    public val INFINITE: Duration =\nDuration(Double.POSITIVE_INFINITY)\n    *\n    /** Converts the given time duration [value] expressed in the\nspecified [sourceUnit] into the specified [targetUnit].\n    *\n    public fun convert(value: Double, sourceUnit:\nDurationUnit, targetUnit: DurationUnit): Double =\nconvertDurationUnit(value, sourceUnit, targetUnit)\n\n  }\n\n  // arithmetic operators\n\n  /** Returns the negative of this value.\n    *\n    public operator fun unaryMinus():\nDuration = Duration(-value)\n\n  /** Returns a duration whose value is the sum of this and [other] duration values.\n    *\n    public operator fun plus(other: Duration): Duration = Duration(value + other.value)\n\n  /** Returns a\nduration whose value is the difference between this and [other] duration values.\n    *\n    public operator fun\nminus(other: Duration): Duration = Duration(value - other.value)\n\n  /** Returns a duration whose value is this\nduration value multiplied by the given [scale] number.\n    *\n    public operator fun times(scale: Int): Duration =\nDuration(value * scale)\n\n  /** Returns a duration whose value is this duration value multiplied by the given\n[scale] number.\n    *\n    public operator fun times(scale: Double): Duration = Duration(value * scale)\n\n  /**\nReturns a duration whose value is this duration value divided by the given [scale] number.\n    *\n    public operator fun\ndiv(scale: Int): Duration = Duration(value / scale)\n\n  /** Returns a duration whose value is this duration value\ndivided by the given [scale] number.\n    *\n    public operator fun div(scale: Double): Duration = Duration(value /\nscale)\n\n  /** Returns a number that is the ratio of this and [other] duration values.\n    *\n    public operator fun\ndiv(other: Duration): Double = this.value / other.value\n\n  /** Returns true, if the duration value is less than zero.\n    *\n    public fun isNegative(): Boolean = value < 0\n\n  /** Returns true, if the duration value is greater than zero.\n    *\n    public fun isPositive(): Boolean = value > 0\n\n  /** Returns true, if the duration value is infinite.\n    *\n    public fun isInfinite(): Boolean = value.isInfinite()\n\n  /** Returns true, if the duration value is finite.\n    *\n    public fun isFinite(): Boolean = value.isFinite()\n\n  /** Returns the absolute value of this value. The returned value is\nalways non-negative.\n    *\n    public val absoluteValue: Duration get() = if (isNegative()) -this else this\n\n  override\nfun compareTo(other: Duration): Int = this.value.compareTo(other.value)\n\n  // splitting to components\n\n  /**\n    *\n    * Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action]\nwith these components.\n    *\n    * The result of [action] is returned as the result of this function.\n    *\n    * -\n`nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than\n1_000_000_000;\n    *\n    * - `seconds` represents the whole number of seconds in this duration, and its absolute value is\nless than 60;\n    *\n    * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less\nthan 60;\n    *\n    * - `hours` represents the whole number of hours in this duration, and its absolute value is less than\n24;\n    *\n    * - `days` represents the whole number of days in this duration.\n    *\n    * If the value doesn't fit in [Int] range,\ni.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n    *\n    * it is coerced into that range.\n\n    *\n    public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds:\nInt) -> T): T {\n      contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n      return\naction(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\n}

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}\n\n /**\n * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action]
with these components.\n * The result of [action] is returned as the result of this function.\n *\n * -
`nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than
1_000_000_000;\n * - `seconds` represents the whole number of seconds in this duration, and its absolute value is
less than 60;\n * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less
than 60;\n * - `hours` represents the whole number of hours in this duration.\n * If the value doesn't fit in [Int]
range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n * it is coerced into that
range.\n */\n public inline fun <T> toComponents(action: (hours: Int, minutes: Int, seconds: Int, nanoseconds:
Int) -> T): T {\n     contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n     return
action(inHours.toInt(), minutesComponent, secondsComponent, nanosecondsComponent)\n }\n\n /**\n *
Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these
components.\n * The result of [action] is returned as the result of this function.\n *\n * - `nanoseconds`
represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
* - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n
* - `minutes` represents the whole number of minutes in this duration.\n * If the value doesn't fit in [Int] range, i.e.
it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n * it is coerced into that range.\n */\n
public inline fun <T> toComponents(action: (minutes: Int, seconds: Int, nanoseconds: Int) -> T): T {\n     contract
{ callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n     return action(inMinutes.toInt(),
secondsComponent, nanosecondsComponent)\n }\n\n /**\n * Splits this duration into seconds, and
nanoseconds and executes the given [action] with these components.\n * The result of [action] is returned as the
result of this function.\n *\n * - `nanoseconds` represents the whole number of nanoseconds in this duration,
and its absolute value is less than 1_000_000_000;\n * - `seconds` represents the whole number of seconds in this
duration.\n * If the value doesn't fit in [Long] range, i.e. it's greater than [Long.MAX_VALUE] or less than
[Long.MIN_VALUE],\n * it is coerced into that range.\n */\n public inline fun <T> toComponents(action:
(seconds: Long, nanoseconds: Int) -> T): T {\n     contract { callsInPlace(action,
InvocationKind.EXACTLY_ONCE) }\n     return action(inSeconds.toLong(), nanosecondsComponent)\n }\n\n
@PublishedApi\n internal val hoursComponent: Int get() = (inHours % 24).toInt()\n @PublishedApi\n internal
val minutesComponent: Int get() = (inMinutes % 60).toInt()\n @PublishedApi\n internal val
secondsComponent: Int get() = (inSeconds % 60).toInt()\n @PublishedApi\n internal val
nanosecondsComponent: Int get() = (inNanoseconds % 1e9).toInt()\n\n // conversion to units\n\n /** Returns
the value of this duration expressed as a [Double] number of the specified [unit]. *\n public fun toDouble(unit:
DurationUnit): Double = convertDurationUnit(value, storageUnit, unit)\n\n /**\n * Returns the value of this
duration expressed as a [Long] number of the specified [unit].\n *\n * If the value doesn't fit in the range of
[Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\n */\n public fun
toLong(unit: DurationUnit): Long = toDouble(unit).toLong()\n\n /**\n * Returns the value of this duration
expressed as an [Int] number of the specified [unit].\n *\n * If the value doesn't fit in the range of [Int] type, it is
coerced into that range, see the conversion [Double.toInt] for details.\n */\n public fun toInt(unit: DurationUnit):
Int = toDouble(unit).toInt()\n\n /** The value of this duration expressed as a [Double] number of days. *\n
public val inDays: Double get() = toDouble(DurationUnit.DAYS)\n\n /** The value of this duration expressed as
a [Double] number of hours. *\n public val inHours: Double get() = toDouble(DurationUnit.HOURS)\n\n /**
The value of this duration expressed as a [Double] number of minutes. *\n public val inMinutes: Double get() =
toDouble(DurationUnit.MINUTES)\n\n /** The value of this duration expressed as a [Double] number of seconds.
*\n public val inSeconds: Double get() = toDouble(DurationUnit.SECONDS)\n\n /** The value of this duration
expressed as a [Double] number of milliseconds. *\n public val inMilliseconds: Double get() =
toDouble(DurationUnit.MILLISECONDS)\n\n /** The value of this duration expressed as a [Double] number of
microseconds. *\n public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)\n\n /**
The value of this duration expressed as a [Double] number of nanoseconds. *\n public val inNanoseconds:
Double get() = toDouble(DurationUnit.NANOSECONDS)\n\n // shortcuts\n\n /**\n * Returns the value of

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this duration expressed as a [Long] number of nanoseconds.\n
 * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\n
 * The range of durations that can be expressed as a `Long` number of nanoseconds is approximately \u00b1292 years.\n
 * public fun toLongNanoseconds(): Long = toLong(DurationUnit.NANOSECONDS)\n
 /** Returns the value of this duration expressed as a [Long] number of milliseconds.\n
 * The value is coerced to the range of [Long] type, if it doesn't fit in that range, see the conversion [Double.toLong] for details.\n
 * The range of durations that can be expressed as a `Long` number of milliseconds is approximately \u00b1292 million years.\n
 * public fun toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)\n
 /** Returns a string representation of this duration value expressed in the unit which yields the most compact and readable number value.\n
 * Special cases:\n
 * - zero duration is formatted as `0s`\n
 * - the infinite duration is formatted as `Infinity` without unit\n
 * - very small durations (less than 1e-15 s) are expressed in seconds and formatted in scientific notation\n
 * - very big durations (more than 1e+7 days) are expressed in days and formatted in scientific notation\n
 * @return the value of duration in the automatically determined unit followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n
 * @sample samples.time.Durations.toStringDefault\n
 * override fun toString(): String = when { isInfinite() -> value.toString()\n
 value == 0.0 -> "0s"\n
 else -> { val absNs = absoluteValue.inNanoseconds\n
 var scientific = false\n
 var maxDecimals = 0\n
 val unit = when { absNs < 1e-6 -> DurationUnit.SECONDS.also { scientific = true }\n
 absNs < 1 -> DurationUnit.NANOSECONDS.also { maxDecimals = 7 }\n
 absNs < 1e3 -> DurationUnit.NANOSECONDS\n
 absNs < 1e6 -> DurationUnit.MICROSECONDS\n
 absNs < 1e9 -> DurationUnit.MILLISECONDS\n
 absNs < 1000e9 -> DurationUnit.SECONDS\n
 absNs < 60_000e9 -> DurationUnit.MINUTES\n
 absNs < 3600_000e9 -> DurationUnit.HOURS\n
 absNs < 86400e9 * 1e7 -> DurationUnit.DAYS\n
 else -> DurationUnit.DAYS.also { scientific = true } }\n
 val value = toDouble(unit)\n
 when { scientific -> formatScientific(value)\n
 maxDecimals > 0 -> formatUpToDecimals(value, maxDecimals)\n
 else -> formatToExactDecimals(value, precision(abs(value))) }\n
 } + unit.shortName()\n
 }\n
 }\n
 private fun precision(value: Double): Int = when { value < 1 -> 3\n
 value < 10 -> 2\n
 value < 100 -> 1\n
 else -> 0 }\n
 /** Returns a string representation of this duration value expressed in the given [unit]\n
 * and formatted with the specified [decimals] number of digits after decimal point.\n
 * Special cases:\n
 * - the infinite duration is formatted as `Infinity` without unit\n
 * @return the value of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n
 * @throws IllegalArgumentException if [decimals] is less than zero.\n
 * @sample samples.time.Durations.toStringDecimals\n
 * public fun toString(unit: DurationUnit, decimals: Int = 0): String {\n
 require(decimals >= 0) { "decimals must be not negative, but was $decimals" }\n
 if (isInfinite()) return value.toString()\n
 val number = toDouble(unit)\n
 return when { abs(number) < 1e14 -> formatToExactDecimals(number, decimals.coerceAtMost(12))\n
 else -> formatScientific(number)\n
 } + unit.shortName()\n
 }\n
 /** Returns an ISO-8601 based string representation of this duration.\n
 * The returned value is presented in the format `PThHmMs.fS`, where `h`, `m`, `s` are the integer components of this duration (see [toComponents])\n
 * and `f` is a fractional part of second. Depending on the roundness of the value the fractional part can be formatted with either 0, 3, 6, or 9 decimal digits.\n
 * If the hours component absolute value of this duration is greater than [Int.MAX_VALUE], it is replaced with [Int.MAX_VALUE],\n
 * so the infinite duration is formatted as `PT2147483647H`.\n
 * Negative durations are indicated with the sign `-` in the beginning of the returned string, for example, `-PT5M30S`.\n
 * @sample samples.time.Durations.toIsoString\n
 * @OptIn(ExperimentalStdlibApi::class)\n
 public fun toIsoString(): String = buildString {\n
 if (isNegative()) append('-')\n
 append("PT")\n
 absoluteValue.toComponents { hours, minutes, seconds, nanoseconds -> val hasHours = hours != 0\n
 val hasSeconds = seconds != 0 || nanoseconds != 0\n
 val hasMinutes = minutes != 0 || (hasSeconds && hasHours)\n
 if (hasHours) {\n
 append(hours).append('H')\n
 }\n
 if (hasMinutes) {\n
 append(minutes).append('M')\n
 }\n
 if (hasSeconds || (hasHours && hasMinutes)) {\n

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*^@SinceKotlin("1.3")^@ExperimentalTime^public val Int.days get() =
toDuration(DurationUnit.DAYS)^n^/** Returns a [Duration] equal to this [Long] number of days.
*^@SinceKotlin("1.3")^@ExperimentalTime^public val Long.days get() =
toDuration(DurationUnit.DAYS)^n^/** Returns a [Duration] equal to this [Double] number of days.
*^@SinceKotlin("1.3")^@ExperimentalTime^public val Double.days get() =
toDuration(DurationUnit.DAYS)^n^/** Returns a duration whose value is the specified [duration] value
multiplied by this number. *^@SinceKotlin("1.3")^@ExperimentalTime^@kotlin.internal.InlineOnly^public
inline operator fun Int.times(duration: Duration): Duration = duration * this^n^/** Returns a duration whose value
is the specified [duration] value multiplied by this number.
*^@SinceKotlin("1.3")^@ExperimentalTime^@kotlin.internal.InlineOnly^public inline operator fun
Double.times(duration: Duration): Duration = duration * this^n^n^internal expect fun
formatToExactDecimals(value: Double, decimals: Int): String^n^internal expect fun formatUpToDecimals(value:
Double, decimals: Int): String^n^internal expect fun formatScientific(value: Double): String", "/*^n * Copyright 2010-
2019 JetBrains s.r.o. and Kotlin Programming Language contributors.^n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.^n
*^@file:kotlin.jvm.JvmMultifileClass()^@file:kotlin.jvm.JvmName("DurationUnitKt")^@package
kotlin.time^n^n^/**^n * The list of possible time measurement units, in which a duration can be expressed.^n *^n *
The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
[HOURS].^n *^@SinceKotlin("1.3")^@ExperimentalTime^public expect enum class DurationUnit {^n /*^n
* Time unit representing one nanosecond, which is 1/1000 of a microsecond.^n *^n NANOSECONDS,^n
/*^n * Time unit representing one microsecond, which is 1/1000 of a millisecond.^n *^n
MICROSECONDS,^n /*^n * Time unit representing one millisecond, which is 1/1000 of a second.^n *^n
MILLISECONDS,^n /*^n * Time unit representing one second.^n *^n SECONDS,^n /*^n * Time unit
representing one minute.^n *^n MINUTES,^n /*^n * Time unit representing one hour.^n *^n
HOURS,^n /*^n * Time unit representing one day, which is always equal to 24 hours.^n *^n
DAYS;^n }^n^n^/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified
[targetUnit]. *^@SinceKotlin("1.3")^@ExperimentalTime^internal expect fun convertDurationUnit(value:
Double, sourceUnit: DurationUnit, targetUnit: DurationUnit):
Double^n^n^@SinceKotlin("1.3")^@ExperimentalTime^internal fun DurationUnit.shortName(): String = when
(this) {^n DurationUnit.NANOSECONDS -> "ns"^n DurationUnit.MICROSECONDS -> "us"^n
DurationUnit.MILLISECONDS -> "ms"^n DurationUnit.SECONDS -> "s"^n DurationUnit.MINUTES ->
"m"^n DurationUnit.HOURS -> "h"^n DurationUnit.DAYS -> "d"^n }", "/*^n * Copyright 2010-2019
JetBrains s.r.o. and Kotlin Programming Language contributors.^n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.^n ^n^package kotlin.time^n^import
kotlin.annotation.AnnotationTarget.*^n^n^/**^n * This annotation marks the experimental preview of the standard
library API for measuring time and working with durations.^n *^n * > Note that this API is in a preview state and has
a very high chance of being changed in the future.^n * Do not use it if you develop a library since your library will
become binary incompatible^n * with the future versions of the standard library.^n *^n * Any usage of a declaration
annotated with `@ExperimentalTime` must be accepted either by^n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalTime::class)`,^n * or by using the compiler argument `-Xopt-
in=kotlin.time.ExperimentalTime`.^n *^@Suppress("DEPRECATION")^@Experimental(level =
Experimental.Level.ERROR)^@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)^@MustBeDocumented^@Retention(AnnotationRetention.BINARY)^@Target(^n
CLASS,^n ANNOTATION_CLASS,^n PROPERTY,^n FIELD,^n LOCAL_VARIABLE,^n
VALUE_PARAMETER,^n CONSTRUCTOR,^n FUNCTION,^n PROPERTY_GETTER,^n
PROPERTY_SETTER,^n TYPEALIAS^n)^@SinceKotlin("1.3")^public annotation class
ExperimentalTime^n", "/*^n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.^n * Use of this source code is governed by the Apache 2.0 license that can be found in the

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license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n/**\n * A source of time for measuring time intervals.\n *\n * The only operation provided by the time source is [markNow]. It returns a [TimeMark], which can be used to query the elapsed time later.\n *\n * @see [measureTime]\n * @see [measureTimedValue]\n */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic interface TimeSource {\n    /**\n     * Marks a point in time on this time source.\n     *\n     * The returned [TimeMark] instance encapsulates the captured time point and allows querying\n     * the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.\n     */\n    public fun markNow(): TimeMark\n}\n\n/**\n * The most precise time source available in the platform.\n *\n * This time source returns its readings from a source of monotonic time when it is available in a target platform,\n * and resorts to a non-monotonic time source otherwise.\n */\npublic object Monotonic : TimeSource by MonotonicTimeSource {\n    override fun toString(): String = MonotonicTimeSource.toString()\n}\n\npublic companion object {\n    /**\n     * Represents a time point notched on a particular [TimeSource]. Remains bound to the time source it was taken from\n     * and allows querying for the duration of time elapsed from that point (see the function [elapsedNow]).\n     */\n    @SinceKotlin("1.3")\n    @ExperimentalTime\n    public abstract class TimeMark {\n        /**\n         * Returns the amount of time passed from this mark measured with the time source from which this mark was taken.\n         *\n         * Note that the value returned by this function can change on subsequent invocations.\n         */\n        public abstract fun elapsedNow(): Duration\n\n        /**\n         * Returns a time mark on the same time source that is ahead of this time mark by the specified [duration].\n         *\n         * The returned time mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.\n         */\n        public open operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)\n\n        /**\n         * Returns a time mark on the same time source that is behind this time mark by the specified [duration].\n         *\n         * The returned time mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.\n         */\n        public open operator fun minus(duration: Duration): TimeMark = plus(-duration)\n\n        /**\n         * Returns true if this time mark has passed according to the time source from which this mark was taken.\n         *\n         * Note that the value returned by this function can change on subsequent invocations.\n         * If the time source is monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point of the time source.\n         */\n        public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()\n\n        /**\n         * Returns false if this time mark has not passed according to the time source from which this mark was taken.\n         *\n         * Note that the value returned by this function can change on subsequent invocations.\n         * If the time source is monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point of the time source.\n         */\n        public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()\n}\n\n@ExperimentalTime\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Deprecated(\n    "Subtracting one TimeMark from another is not a well defined operation because these time marks could have been obtained from the different time sources.",\n    level =\n    DeprecationLevel.ERROR\n)\n@Suppress("UNUSED_PARAMETER")\npublic inline operator fun TimeMark.minus(other: TimeMark): Duration = throw Error("Operation is disallowed.")\n\n@ExperimentalTime\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Deprecated(\n    "Comparing one TimeMark to another is not a well defined operation because these time marks could have been obtained from the different time sources.",\n    level =\n    DeprecationLevel.ERROR\n)\n@Suppress("UNUSED_PARAMETER")\npublic inline operator fun TimeMark.compareTo(other: TimeMark): Int = throw Error("Operation is disallowed.")\n\n@ExperimentalTime\nprivate class AdjustedTimeMark(val mark: TimeMark, val adjustment: Duration) : TimeMark() {\n    override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\n    override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeSource interface instead.", ReplaceWith("TimeSource", "kotlin.time.TimeSource"), DeprecationLevel.ERROR)\npublic typealias Clock = TimeSource\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeMark class instead.", ReplaceWith("TimeMark", "kotlin.time.TimeMark"), DeprecationLevel.ERROR)\npublic typealias ClockMark = TimeMark\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language

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contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal
expect object MonotonicTimeSource : TimeSource\n\n/**\n * An abstract class used to implement time sources that
return their readings as [Long] values in the specified [unit].\n *\n * @property unit The unit in which this time
source's readings are expressed.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class
AbstractLongTimeSource(protected val unit: DurationUnit) : TimeSource {\n\n    /**\n     * This protected method
should be overridden to return the current reading of the time source expressed as a [Long] number\n     * in the unit
specified by the [unit] property.\n     */\n\n    protected abstract fun read(): Long\n\n    private class
LongTimeMark(private val startedAt: Long, private val timeSource: AbstractLongTimeSource, private val offset:
Duration) : TimeMark() {\n\n        override fun elapsedNow(): Duration = (timeSource.read() -
startedAt).toDuration(timeSource.unit) - offset\n\n        override fun plus(duration: Duration): TimeMark =
LongTimeMark(startedAt, timeSource, offset + duration)\n    }\n\n    override fun markNow(): TimeMark =
LongTimeMark(read(), this, Duration.ZERO)\n}\n\n\n/**\n * An abstract class used to implement time sources that
return their readings as [Double] values in the specified [unit].\n *\n * @property unit The unit in which this time
source's readings are expressed.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class
AbstractDoubleTimeSource(protected val unit: DurationUnit) : TimeSource {\n\n    /**\n     * This protected method
should be overridden to return the current reading of the time source expressed as a [Double] number\n     * in the
unit specified by the [unit] property.\n     */\n\n    protected abstract fun read(): Double\n\n    private class
DoubleTimeMark(private val startedAt: Double, private val timeSource: AbstractDoubleTimeSource, private val
offset: Duration) : TimeMark() {\n\n        override fun elapsedNow(): Duration = (timeSource.read() -
startedAt).toDuration(timeSource.unit) - offset\n\n        override fun plus(duration: Duration): TimeMark =
DoubleTimeMark(startedAt, timeSource, offset + duration)\n    }\n\n    override fun markNow(): TimeMark =
DoubleTimeMark(read(), this, Duration.ZERO)\n}\n\n\n/**\n * A time source that has programmatically updatable
readings. It is useful as a predictable source of time in tests.\n *\n * The current reading value can be advanced by
the specified duration amount with the operator [plusAssign]:\n *\n * ```\n * val timeSource = TestTimeSource()\n *
timeSource += 10.seconds\n * ```\n *\n * Implementation note: the current reading value is stored as a [Long]
number of nanoseconds,\n * thus it's capable to represent a time range of approximately \u00b21292 years.\n *\n
Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic class TestTimeSource : AbstractLongTimeSource(unit =
DurationUnit.NANOSECONDS) {\n\n    private var reading: Long = 0L\n\n    override fun read(): Long = reading\n\n
    /**\n     * Advances the current reading value of this time source by the specified [duration].\n     *\n     * [duration]
value is rounded down towards zero when converting it to a [Long] number of nanoseconds.\n     *\n     * For example, if
the duration being added is `0.6.nanoseconds`, the reading doesn't advance because\n     * the duration value is
rounded to zero nanoseconds.\n     *\n     * @throws IllegalStateException when the reading value overflows as the
result of this operation.\n     */\n\n    public operator fun plusAssign(duration: Duration) {\n\n        val delta =
duration.toDouble(unit)\n        val longDelta = delta.toLong()\n        reading = if (longDelta != Long.MIN_VALUE
&& longDelta != Long.MAX_VALUE) {\n\n            // when delta fits in long, add it as long\n            val newReading
= reading + longDelta\n            if (reading xor longDelta >= 0 && reading xor newReading < 0)\n                overflow(duration)\n            newReading\n        } else {\n\n            // when delta is greater than long, add it as double\n
            val newReading = reading + delta\n            if (newReading > Long.MAX_VALUE || newReading <
Long.MIN_VALUE) overflow(duration)\n            newReading.toLong()\n        }\n    }\n\n    private fun
overflow(duration: Duration) {\n        throw IllegalStateException("TestTimeSource will overflow if its reading
${reading}ns is advanced by $duration.")\n    }\n}\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeSource.Monotonic instead.",
ReplaceWith("TimeSource.Monotonic", "kotlin.time.TimeSource"), DeprecationLevel.ERROR)\npublic
typealias MonoClock =
TimeSource.Monotonic\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
AbstractLongTimeSource instead.", ReplaceWith("AbstractLongTimeSource"),

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\"kotlin.time.AbstractLongTimeSource\"), DeprecationLevel.ERROR)\npublic typealias AbstractLongClock =
AbstractLongTimeSource\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use
AbstractDoubleTimeSource instead.\", ReplaceWith(\"AbstractDoubleTimeSource\"),
\"kotlin.time.AbstractDoubleTimeSource\"), DeprecationLevel.ERROR)\npublic typealias AbstractDoubleClock =
AbstractDoubleTimeSource\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use TestTimeSource
instead.\", ReplaceWith(\"TestTimeSource\", \"kotlin.time.TestTimeSource\"), DeprecationLevel.ERROR)\npublic
typealias TestClock = TestTimeSource\n\", \"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.contracts.*\n\n/**\n * Executes the given
function [block] and returns the duration of elapsed time interval.\n */\n * The elapsed time is measured with
[TimeSource.Monotonic].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun
measureTime(block: () -> Unit): Duration {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n    return TimeSource.Monotonic.measureTime(block)\n}\n\n/**\n *
Executes the given function [block] and returns the duration of elapsed time interval.\n */\n * The elapsed time is
measured with the specified `this` [TimeSource] instance.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun TimeSource.measureTime(block: () -> Unit):
Duration {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    val mark =
markNow()\n    block()\n    return mark.elapsedNow()\n}\n\n/**\n * Data class representing a result of executing
an action, along with the duration of elapsed time interval.\n */\n * @property value the result of the action.\n *
@property duration the time elapsed to execute the action.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic data class TimedValue<T>(val value: T, val duration:
Duration)\n\n/**\n * Executes the given function [block] and returns an instance of [TimedValue] class, containing
both\n * the result of the function execution and the duration of elapsed time interval.\n */\n * The elapsed time is
measured with [TimeSource.Monotonic].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun <T>
measureTimedValue(block: () -> T): TimedValue<T> {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n    return
TimeSource.Monotonic.measureTimedValue(block)\n}\n\n/**\n * Executes the given [block] and returns an
instance of [TimedValue] class, containing both\n * the result of function execution and the duration of elapsed time
interval.\n */\n * The elapsed time is measured with the specified `this` [TimeSource] instance.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun <T> TimeSource.measureTimedValue(block: ()
-> T): TimedValue<T> {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    val
mark = markNow()\n    val result = block()\n    return TimedValue(result, mark.elapsedNow())\n}\n\", \"/*\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin\n\nimport kotlin.coroutines.*\nimport kotlin.coroutines.intrinsics.*\n\n/**\n * Defines deep recursive function
that keeps its stack on the heap,\n * which allows very deep recursive computations that do not use the actual call
stack.\n * To initiate a call to this deep recursive function use its [invoke] function.\n * As a rule of thumb, it should
be used if recursion goes deeper than a thousand calls.\n */\n * The [DeepRecursiveFunction] takes one parameter of
type [T] and returns a result of type [R].\n * The [block] of code defines the body of a recursive function. In this
block\n * [callRecursive][DeepRecursiveScope.callRecursive] function can be used to make a recursive call\n * to
the declared function. Other instances of [DeepRecursiveFunction] can be called\n * in this scope with
`callRecursive` extension, too.\n */\n * For example, take a look at the following recursive tree class and a deeply\n *
recursive instance of this tree with 100K nodes:\n */\n * ```\n * class Tree(val left: Tree? = null, val right: Tree? =
null)\n * val deepTree = generateSequence(Tree()) { Tree(it) }.take(100_000).last()\n * ```\n */\n * A regular
recursive function can be defined to compute a depth of a tree:\n */\n * ```\n * fun depth(t: Tree?): Int =\n *     if (t ==
null) 0 else max(depth(t.left), depth(t.right)) + 1\n * println(depth(deepTree)) // StackOverflowError\n * ```\n */\n *
If this `depth` function is called for a `deepTree` it produces [StackOverflowError] because of deep recursion.\n *
However, the `depth` function can be rewritten using `DeepRecursiveFunction` in the following way, and then\n * it

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successfully computes [ depth(deepTree) ][DeepRecursiveFunction.invoke] expression:\n *\n * ```\n * val depth =
DeepRecursiveFunction<Tree?, Int> { t ->\n * if (t == null) 0 else max(callRecursive(t.left),
callRecursive(t.right)) + 1\n * }\n * println(depth(deepTree)) // Ok\n * ```\n *\n * Deep recursive functions can also
mutually call each other using a heap for the stack via\n * [callRecursive][DeepRecursiveScope.callRecursive]
extension. For example, the\n * following pair of mutually recursive functions computes the number of tree nodes at
even depth in the tree.\n *\n * ```\n * val mutualRecursion = object {\n * val even:
DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->\n * if (t == null) 0 else
odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1\n * }\n * val odd: DeepRecursiveFunction<Tree?,
Int> = DeepRecursiveFunction { t ->\n * if (t == null) 0 else even.callRecursive(t.left) +
even.callRecursive(t.right)\n * }\n * }\n * ```\n *\n * @param [T] the function parameter type.\n * @param [R]
the function result type.\n * @param block the function body.\n
*\n * @SinceKotlin("1.4")\n * @ExperimentalStdlibApi\n * public class DeepRecursiveFunction<T, R>(\n * internal val
block: suspend DeepRecursiveScope<T, R>.(T) -> R)\n * )\n * /**\n * Initiates a call to this deep recursive function,
forming a root of the call tree.\n * This operator should not be used from inside of [DeepRecursiveScope] as it
uses the call stack slot for\n * initial recursive invocation. From inside of [DeepRecursiveScope] use\n *
[callRecursive][DeepRecursiveScope.callRecursive].\n
*\n * @SinceKotlin("1.4")\n * @ExperimentalStdlibApi\n * public operator fun <T, R> DeepRecursiveFunction<T,
R>.invoke(value: T): R =\n * DeepRecursiveScopeImpl<T, R>(block, value).runCallLoop()\n * /**\n * A scope
class for [DeepRecursiveFunction] function declaration that defines [callRecursive] methods to\n * recursively call
this function or another [DeepRecursiveFunction] putting the call activation frame on the heap.\n * @param [T]
function parameter type.\n * @param [R] function result type.\n
*\n * @RestrictsSuspension\n * @SinceKotlin("1.4")\n * @ExperimentalStdlibApi\n * public sealed class
DeepRecursiveScope<T, R> {\n * /**\n * Makes recursive call to this [DeepRecursiveFunction] function putting
the call activation frame on the heap,\n * as opposed to the actual call stack that is used by a regular recursive
call.\n * ^\n * public abstract suspend fun callRecursive(value: T): R\n * /**\n * Makes call to the specified
[DeepRecursiveFunction] function putting the call activation frame on the heap,\n * as opposed to the actual call
stack that is used by a regular call.\n * ^\n * public abstract suspend fun <U, S> DeepRecursiveFunction<U,
S>.callRecursive(value: U): S\n * @Deprecated(\n * level = DeprecationLevel.ERROR,\n * message =\n *
'"invoke' should not be called from DeepRecursiveScope. \n * ^\n * ^\n * Use 'callRecursive' to do recursion in
the heap instead of the call stack.\n * ^\n * replaceWith = ReplaceWith("this.callRecursive(value)")\n * )\n
*\n * @Suppress("UNUSED_PARAMETER")\n * public operator fun DeepRecursiveFunction<*, *>.invoke(value:
Any?): Nothing =\n * throw UnsupportedOperationException("Should not be called from
DeepRecursiveScope")\n * }\n * \n * // ===== Implementation
=====\n * \n * @ExperimentalStdlibApi\n * private typealias DeepRecursiveFunctionBlock = suspend
DeepRecursiveScope<*, *>.(Any?) -> Any?\n * private val UNDEFINED_RESULT =
Result.success(COROUTINE_SUSPENDED)\n * @Suppress("UNCHECKED_CAST")\n * @ExperimentalStdlibAp
*\n * private class DeepRecursiveScopeImpl<T, R>(\n * block: suspend DeepRecursiveScope<T, R>.(T) -> R,\n
value: T\n * ): DeepRecursiveScope<T, R>(), Continuation<R> {\n * // Active function block\n * private var
function: DeepRecursiveFunctionBlock = block as DeepRecursiveFunctionBlock\n * // Value to call function
with\n * private var value: Any? = value\n * // Continuation of the current call\n * private var cont:
Continuation<Any?>? = this as Continuation<Any?>\n * // Completion result (completion of the whole call
stack)\n * private var result: Result<Any?> = UNDEFINED_RESULT\n * override val context:
CoroutineContext\n * get() = EmptyCoroutineContext\n * override fun resumeWith(result: Result<R>) {\n *
this.cont = null\n * this.result = result\n * }\n * override suspend fun callRecursive(value: T): R =
suspendCoroutineUninterceptedOrReturn { cont ->\n * // calling the same function that is currently active\n *
this.cont = cont as Continuation<Any?>\n * this.value = value\n * COROUTINE_SUSPENDED\n * }\n *
override suspend fun <U, S> DeepRecursiveFunction<U, S>.callRecursive(value: U): S =
suspendCoroutineUninterceptedOrReturn { cont ->\n * // calling another recursive function\n * val function =

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block as DeepRecursiveFunctionBlock\n    with(this@DeepRecursiveScopeImpl) {\n        val currentFunction
= this.function\n        if (function !== currentFunction) {\n            // calling a different function -- create a
trampoline to restore function ref\n            this.function = function\n            this.cont =
crossFunctionCompletion(currentFunction, cont as Continuation<Any?>)\n        } else {\n            // calling the
same function -- direct\n            this.cont = cont as Continuation<Any?>\n        }\n        this.value = value\n    }\n    COROUTINE_SUSPENDED)\n}\n\nprivate fun crossFunctionCompletion(\n    currentFunction:
DeepRecursiveFunctionBlock,\n    cont: Continuation<Any?>)\n    : Continuation<Any?> =
Continuation(EmptyCoroutineContext) {\n    this.function = currentFunction\n    // When going back from a
trampoline we cannot just call cont.resume (stack usage!)\n    // We delegate the cont.resumeWith(it) call to
runCallLoop\n    this.cont = cont\n    this.result = it\n}\n\n@Suppress(\"UNCHECKED_CAST\")\nfun
runCallLoop(): R {\n    while (true) {\n        // Note: cont is set to null in DeepRecursiveScopeImpl.resumeWith
when the whole computation completes\n        val result = this.result\n        val cont = this.cont\n        ?:
return (result as Result<R>).getOrThrow() // done -- final result\n        // The order of comparison is important
here for that case of rogue class with broken equals\n        if (UNDEFINED_RESULT == result) {\n            //
call \"function\" with \"value\" using \"cont\" as completion\n            val r = try {\n                // This is
block.startCoroutine(this, value, cont)\n                function.startCoroutineUninterceptedOrReturn(this, value,
cont)\n            } catch (e: Throwable) {\n                cont.resumeWithException(e)\n                continue\n
            }\n            // If the function returns without suspension -- calls its continuation immediately\n            if (r !==
COROUTINE_SUSPENDED)\n                cont.resume(r as R)\n            } else {\n                // we returned from a
crossFunctionCompletion trampoline -- call resume here\n                this.result = UNDEFINED_RESULT // reset
result back\n                cont.resumeWith(result)\n            }\n        }\n    }\n}\n\n\",/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.internal.InlineOnly\n\n/**\n * Returns a hash code value for the object or zero if the object is `null`. \n */\n *
@see Any.hashCode\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun Any?.hashCode(): Int =
this?.hashCode() ?: 0\n\",/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Represents a version of the Kotlin standard library.\n */\n *
[major], [minor] and [patch] are integer components of a version,\n * they must be non-negative and not
greater than 255 ([MAX_COMPONENT_VALUE]).\n */\n * @constructor Creates a version from all three
components.\n */\n@SinceKotlin(\"1.1\")\npublic class KotlinVersion(val major: Int, val minor: Int, val patch: Int) :
Comparable<KotlinVersion> {\n    /**\n     * Creates a version from [major] and [minor] components, leaving
[patch] component zero.\n     */\n     public constructor(major: Int, minor: Int) : this(major, minor, 0)\n\n     private val
version = versionOf(major, minor, patch)\n\n     private fun versionOf(major: Int, minor: Int, patch: Int): Int {\n
require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in
0..MAX_COMPONENT_VALUE) {\n         \"Version components are out of range: $major.$minor.$patch\"\n
}\n         return major.shl(16) + minor.shl(8) + patch\n     }\n\n     /**\n     * Returns the string representation of this
version.\n     */\n     override fun toString(): String = \"$major.$minor.$patch\"\n\n     override fun equals(other:
Any?): Boolean {\n         if (this === other) return true\n         val otherVersion = (other as? KotlinVersion) ?: return
false\n         return this.version == otherVersion.version\n     }\n\n     override fun hashCode(): Int = version\n\n
override fun compareTo(other: KotlinVersion): Int = version - other.version\n\n     /**\n     * Returns `true` if this
version is not less than the version specified\n     * with the provided [major] and [minor] components.\n     */\n     public fun
isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)\n     this.major > major || (this.major == major &&\n
        this.minor >= minor)\n\n     /**\n     * Returns `true` if this
version is not less than the version specified\n     * with the provided [major], [minor] and [patch] components.\n     */\n     public fun
isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor,
patch)\n     this.major > major || (this.major == major &&\n
        (this.minor > minor || this.minor == minor
&&\n            this.patch >= patch))\n\n     companion object {\n         /**\n          * Maximum value a version

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component can have, a constant value 255.\n    *\/n    // NOTE: Must be placed before CURRENT because its
initialization requires this field being initialized in JS\n    public const val MAX_COMPONENT_VALUE =
255\n\n    /**\n    * Returns the current version of the Kotlin standard library.\n    *\/n
@kotlin.jvm.JvmField\n    public val CURRENT: KotlinVersion = KotlinVersionCurrentValue.get()\n
}\n}\n\n// this class is ignored during classpath normalization when considering whether to recompile dependencies
in Kotlin build\nprivate object KotlinVersionCurrentValue {\n    @kotlin.jvm.JvmStatic\n    fun get():
KotlinVersion = KotlinVersion(1, 4, 32) // value is written here automatically during build\n},"\/n * Copyright
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by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\/n\n@file:kotlin.jvm.JvmName("LateinitKt")\n@file:Suppress("unused")\n\npackage kotlin\n\nimport
kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport
kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned a value, and `false`
otherwise.\n *\/n * Cannot be used in an inline function, to avoid binary compatibility issues.\n
*\/n\n@SinceKotlin("1.2")\n@InlineOnly\ninline val @receiver:AccessibleLateinitPropertyLiteral
KProperty0<*>.isInitialized: Boolean\n    get() = throw NotImplementedError("Implementation is
intrinsic")\n},"\/n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\/n\n@file:kotlin.jvm.JvmName("LazyKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin\n\nimport
kotlin.reflect.KProperty\n\n/**\n * Represents a value with lazy initialization.\n *\/n * To create an instance of
[Lazy] use the [lazy] function.\n *\/n\npublic interface Lazy<out T> {\n    /**\n    * Gets the lazily initialized value of
the current Lazy instance.\n    *\/n * Once the value was initialized it must not change during the rest of lifetime of this
Lazy instance.\n    *\/n    public val value: T\n\n    /**\n    * Returns `true` if a value for this Lazy instance has been
already initialized, and `false` otherwise.\n    *\/n * Once this function has returned `true` it stays `true` for the rest of
lifetime of this Lazy instance.\n    *\/n    public fun isInitialized(): Boolean\n}\n\n/**\n * Creates a new instance of
the [Lazy] that is already initialized with the specified [value].\n *\/n\npublic fun <T> lazyOf(value: T): Lazy<T> =
InitializedLazyImpl(value)\n\n/**\n * An extension to delegate a read-only property of type [T] to an instance of
[Lazy].\n *\/n * This extension allows to use instances of Lazy for property delegation:\n *\/n * `val property: String by
lazy { initializer }`\n *\/n\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Lazy<T>.getValue(thisRef:
Any?, property: KProperty<*>): T = value\n\n/**\n * Specifies how a [Lazy] instance synchronizes initialization
among multiple threads.\n *\/n\npublic enum class LazyThreadSafetyMode {\n\n    /**\n    * Locks are used to ensure
that only a single thread can initialize the [Lazy] instance.\n    *\/n    SYNCHRONIZED,\n\n    /**\n    * Initializer
function can be called several times on concurrent access to uninitialized [Lazy] instance value,\n    *\/n * but only the
first returned value will be used as the value of [Lazy] instance.\n    *\/n    PUBLICATION,\n\n    /**\n    * No
locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple
threads, its behavior is undefined.\n    *\/n * This mode should not be used unless the [Lazy] instance is
guaranteed never to be initialized from more than one thread.\n    *\/n    NONE,\n}\n\n\ninternal object
UNINITIALIZED_VALUE\n\n// internal to be called from lazy in JS\ninternal class UnsafeLazyImpl<out
T>(initializer: () -> T) : Lazy<T>, Serializable {\n    private var initializer: (() -> T)? = initializer\n    private var
_value: Any? = UNINITIALIZED_VALUE\n\n    override val value: T\n        get() {\n            if (_value ===
UNINITIALIZED_VALUE) {\n                _value = initializer!!()\n                initializer = null\n            }\n
\n            @Suppress("UNCHECKED_CAST")\n            return _value as T\n        }\n\n    override fun isInitialized():
Boolean = _value !== UNINITIALIZED_VALUE\n\n    override fun toString(): String = if (isInitialized())
value.toString() else "Lazy value not initialized yet."\n\n    private fun writeReplace(): Any =
InitializedLazyImpl(value)\n}\n\ninternal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>,
Serializable {\n    override fun isInitialized(): Boolean = true\n\n    override fun toString(): String =
value.toString()\n}\n\n},"\/n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n

```

*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\NumbersKt")\npackage kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this number is zero.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.takeHighestOneBit(): Int\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\n * or zero, if this number is zero.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.takeLowestOneBit(): Int\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n *@\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun
Int.rotateLeft(bitCount: Int): Int\n\n/**\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n *@\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun
Int.rotateRight(bitCount: Int): Int\n\n/**\n * Counts the number of set bits in the binary representation of this [Long] number.\n *@\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is zero.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.takeHighestOneBit(): Long\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.takeLowestOneBit(): Long\n\n/**\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n *@\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun
Long.rotateLeft(bitCount: Int): Long\n\n/**\n * Rotates the binary representation of this [Long] number right by the

specified [bitCount] number of bits.
 * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
 * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:
`number.rotateRight(-n) == number.rotateLeft(n)`
 * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally
`number.rotateRight(n) == number.rotateRight(n % 64)`
 * SinceKotlin("1.3")
 @ExperimentalStdlibApi
 public expect fun Long.rotateRight(bitCount: Int): Long
 * Counts the number of set bits in the binary representation of this [Byte] number.
 * SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @kotlin.internal.InlineOnly
 public inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.
 * SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @kotlin.internal.InlineOnly
 public inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.
 * SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @kotlin.internal.InlineOnly
 public inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()
 * Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number, or zero, if this number is zero.
 * SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @kotlin.internal.InlineOnly
 public inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()
 * Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number, or zero, if this number is zero.
 * SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @kotlin.internal.InlineOnly
 public inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()
 * Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.
 * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
 * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:
`number.rotateLeft(-n) == number.rotateRight(n)`
 * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally
`number.rotateLeft(n) == number.rotateLeft(n % 8)`
 * SinceKotlin("1.3")
 @ExperimentalStdlibApi
 public fun Byte.rotateLeft(bitCount: Int): Byte = (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()
 * Rotates the binary representation of this [Byte] number right by the specified [bitCount] number of bits.
 * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
 * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:
`number.rotateRight(-n) == number.rotateLeft(n)`
 * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally
`number.rotateRight(n) == number.rotateRight(n % 8)`
 * SinceKotlin("1.3")
 @ExperimentalStdlibApi
 public fun Byte.rotateRight(bitCount: Int): Byte = (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()
 * Counts the number of set bits in the binary representation of this [Short] number.
 * SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @kotlin.internal.InlineOnly
 public inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.
 * SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @kotlin.internal.InlineOnly
 public inline fun Short.countLeadingZeroBits(): Int = (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number.
 * SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 @kotlin.internal.InlineOnly
 public inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()
 * Returns a

number having a single bit set in the position of the most significant set bit of this [Short] number, \n * or zero, if this number is zero.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n/**\n * Rotates the binary representation of this [Short] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun Short.rotateLeft(bitCount: Int): Short =\n(toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n/**\n * Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun Short.rotateRight(bitCount: Int): Short =\n(toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\nimport kotlin.internal.RequireKotlin\nimport
```

```
kotlin.internal.RequireKotlinVersionKind\n\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.2")\n@Suppress("INVISIBLE_MEMBER", "INVISIBLE_REFERENCE")\n@RequireKotlin("1.2.30", level = DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic inline fun <R> suspend(noinline block: suspend () -> R): suspend () -> R = block\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
```

```
*\n\n@file:kotlin.jvm.JvmName("TuplesKt")\n\npackage kotlin\n\n/**\n * Represents a generic pair of two values.\n * There is no meaning attached to values in this class, it can be used for any purpose.\n * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\n * An example of decomposing it into values:\n * @sample samples.misc.Tuples.pairDestructuring\n * @param A type of the first value.\n * @param B type of the second value.\n * @property first First value.\n * @property second Second value.\n * @constructor Creates a new instance of Pair.\n */\npublic data class Pair<out A, out B>(\n    public val first: A,\n    public val second: B\n) : Serializable {\n\n    /**\n     * Returns string representation of the [Pair] including its [first] and [second] values.\n     */\n    public override fun toString(): String = "$first, $second"\n\n    /**\n     * Creates a tuple of type [Pair] from this and [that].\n     * This can be useful for creating [Map] literals with less noise, for example:\n     * @sample samples.collections.Maps.instantiation.mapFromPairs\n     */\n    public infix fun <A, B> A.to(that: B): Pair<A, B> = Pair(this, that)\n\n    /**\n     * Converts this pair into a list.\n     * @sample samples.misc.Tuples.pairToList\n     */\n    public fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n    /**\n     * Represents a triad of values\n     * There is no meaning attached to values in this class, it can be used for any purpose.\n     * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.\n     * An example of decomposing it into values:\n     * @sample samples.misc.Tuples.tripleDestructuring\n     * @param A type of the first value.\n     * @param B type of the second value.\n     * @param C type of the third value.\n     * @property first First value.\n     * @property second Second value.\n     * @property third Third value.\n     */\n    public data class
```



```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public abstract class UShortIterator : Iterator<UShort>
{
    override final fun next() = nextUShort()\n\n /** Returns the next value in the sequence without boxing. */
    public abstract fun nextUShort(): UShort\n}\n\n/** An iterator over a sequence of values of type `UInt` .
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public abstract class UIntIterator : Iterator<UInt> {
    override final fun next() = nextUInt()\n\n /** Returns the next value in the sequence without boxing. */
    public abstract fun nextUInt(): UInt\n}\n\n/** An iterator over a sequence of values of type `ULong` .
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public abstract class ULongIterator : Iterator<ULong>
{
    override final fun next() = nextULong()\n\n /** Returns the next value in the sequence without boxing. */
    public abstract fun nextULong(): ULong\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.ranges\n\nimport kotlin.internal.*\n\n/** A range of values of type `ULong` .\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public class ULongRange(start: ULong, endInclusive:
ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {
    override val start: ULong get() =
first\n    override val endInclusive: ULong get() = last\n    override fun contains(value: ULong): Boolean = first <=
value && value <= last\n    override fun isEmpty(): Boolean = first > last\n    override fun equals(other: Any?):
Boolean =\n        other is ULongRange && (isEmpty() && other.isEmpty()) ||\n            first == other.first && last
== other.last\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() +
(last xor (last shr 32)).toInt())\n    override fun toString(): String = "$first..$last"\n\n    companion object {
        /** An empty range of values of type ULong. */
        public val EMPTY: ULongRange =
        ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)\n    }\n\n    /** A progression of values of type
`ULong` .\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public open class
ULongProgression\n\ninternal constructor(\n    start: ULong,\n    endInclusive: ULong,\n    step: Long\n) :
Iterable<ULong> {
    init {
        if (step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be
non-zero.")\n        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater
than Long.MIN_VALUE to avoid overflow on negation.")\n    }\n\n    /**\n     * The first element in the
progression.\n     */
    public val first: ULong = start\n    /**\n     * The last element in the progression.\n     */
    public val last: ULong = getProgressionLastElement(start, endInclusive, step)\n    /**\n     * The step of the
progression.\n     */
    public val step: Long = step\n\n    override fun iterator(): ULongIterator =
        ULongProgressionIterator(first, last, step)\n    /** Checks if the progression is empty. */
    public open fun
isEmpty(): Boolean = if (step > 0) first > last else first < last\n    override fun equals(other: Any?): Boolean =\n
other is ULongProgression && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last ==
other.last && step == other.step\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * (first
xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())\n    override fun
toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"\n\n    companion
object {
        /**\n         * Creates ULongProgression within the specified bounds of a closed range.\n         * The
progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the
specified [step].\n         * In order to go backwards the [step] must be negative.\n         * [step] must be
greater than `Long.MIN_VALUE` and not equal to zero.\n         */
        public fun fromClosedRange(rangeStart:
        ULong, rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)\n
    }\n\n    /** An iterator over a progression of values of type `ULong` .\n     * @property step the number by which
the value is incremented on each step.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^private class
ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {
    private val finalElement =
last\n    private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private val step =
step.toULong() // use 2-complement math for negative steps\n    private var next = if (hasNext) first else
finalElement\n    override fun hasNext(): Boolean = hasNext\n    override fun nextULong(): ULong {
        val
value = next\n        if (value == finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n
            hasNext = false\n        } else {\n            next += step\n        }\n        return value\n    }\n\n"/*\n * Copyright

```

2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.math\n\n/**\n * Returns the smaller of two values.\n *\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun min(a: UInt, b: UInt): UInt {\n return minOf(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n *\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun min(a: ULong, b: ULong): ULong {\n return minOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n *\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun max(a: UInt, b: UInt): UInt {\n return maxOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n *\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun max(a: ULong, b: ULong): ULong {\n return maxOf(a, b)\n}\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("UNumbersKt")\npackage kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [UInt] number.\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countOneBits(): Int = toInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt] number.\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UInt] number.\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UInt] number, or zero, if this number is zero.\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UInt] number, or zero, if this number is zero.\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number left by the specified [bitCount] number of bits. The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count: number.rotateLeft(-n) == number.rotateRight(n) Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally number.rotateLeft(n) == number.rotateLeft(n % 32)\n *\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number right by the specified [bitCount] number of bits. The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side. Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count: number.rotateRight(-n) == number.rotateLeft(n) Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally number.rotateRight(n) == number.rotateRight(n % 32)\n *\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()\n\n/**\n * Counts the number of set bits in the binary representation of this [ULong] number.\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n

```

@kotlin.internal.InlineOnly\npublic inline fun ULong.countOneBits(): Int = toLong().countOneBits()\n\n/**\n *
Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong]
number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULong.countLeadingZeroBits(): Int =
toLong().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [ULong] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULong.countTrailingZeroBits(): Int =
toLong().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULong.takeHighestOneBit(): ULong =
toLong().takeHighestOneBit().toULong()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun ULong.takeLowestOneBit(): ULong =
toLong().takeLowestOneBit().toULong()\n\n/**\n * Rotates the binary representation of this [ULong] number left
by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()\n\n/**\n *
Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n
*/\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [ULong.SIZE_BITS] (64)
returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()\n\n/**\n *
Counts the number of set bits in the binary representation of this [UByte] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByte.countOneBits(): Int = toUInt().countOneBits()\n\n/**\n *
Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte]
number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByte.countLeadingZeroBits(): Int =
toByte().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [UByte] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByte.countTrailingZeroBits(): Int =
toByte().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n
@kotlin.internal.InlineOnly\npublic inline fun UByte.takeHighestOneBit(): UByte =
toInt().takeHighestOneBit().toUByte()\n\n/**\n * Returns a number having a single bit set in the position of the least

```

significant set bit of this [UByte] number, \n * or zero, if this number is zero.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeLowestOneBit(): UByte =\ntoInt().takeLowestOneBit().toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number left by\nthe specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the\nnumber as the least significant bits on the right side.\n * \n * Rotating the number left by a negative bit count is the\nsame as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * \n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * \n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.\n * The\nleast significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * \n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * \n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * \n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns\nthe same number, or more generally\n * \n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n/**\n * Counts the number of set bits in the binary representation of this [UShort] number.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort]\nnumber.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countLeadingZeroBits(): Int =\ntoShort().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in\nthe binary representation of this [UShort] number.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countTrailingZeroBits(): Int =\ntoShort().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most\nsignificant set bit of this [UShort] number, \n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeHighestOneBit(): UShort =\ntoInt().takeHighestOneBit().toUShort()\n\n/**\n * Returns a number having a single bit set in the position of the\nleast significant set bit of this [UShort] number, \n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeLowestOneBit(): UShort =\ntoInt().takeLowestOneBit().toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number left\nby the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the\nnumber as the least significant bits on the right side.\n * \n * Rotating the number left by a negative bit count is the\nsame as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * \n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n * \n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\n * The\nleast significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * \n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * \n * `number.rotateRight(-n) == number.rotateLeft(n)`\n
```

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`number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [UShort.SIZE_BITS] (16)
returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()\n"/*\n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:OptIn(ExperimentalUnsignedTypes::class)\npackage kotlin.internal\n\n// (a - b) mod c\nprivate fun
differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n    val ac = a % c\n    val bc = b % c\n    return if (ac >= bc) ac -
bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n    val ac = a %
c\n    val bc = b % c\n    return if (ac >= bc) ac - bc else ac - bc + c\n}\n\n/**\n * Calculates the final element of a
bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end]
in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed
parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <=
end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end
ending bound for the progression\n * @param step increment, or difference of successive elements in the
progression\n * @return the final element of the progression\n * @suppress\n
*\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step:
Int): UInt = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\n
step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\n    else -> throw
kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element of a bounded
arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case
of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed
parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <=
end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end
ending bound for the progression\n * @param step increment, or difference of successive elements in the
progression\n * @return the final element of the progression\n * @suppress\n
*\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: ULong, end: ULong,
step: Long): ULong = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start,
step.toULong())\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())\n
else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("UStringsKt") // string
representation of unsigned numbers\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Byte]
value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix for
number to string conversion.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this
[Short] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix
for number to string conversion.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n\n/**\n * Returns a string representation of this
[Int] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix for
number to string conversion.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n\n/**\n * Returns a string representation of this
[Long] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix
for number to string conversion.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n\n/**\n * Parses the string

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return null\n\n    val limit: UInt = UInt.MAX_VALUE\n    val start: Int\n\n    val firstChar = this[0]\n    if (firstChar < '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val limitForMaxRadix = 119304647u // limit / 36\n\n    var limitBeforeMul = limitForMaxRadix\n    val uradix = radix.toUInt()\n    var result = 0u\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n            }\n            if (result > limitBeforeMul) {\n                return null\n            }\n        } else {\n            return null\n        }\n    }\n\n    result *= uradix\n\n    val beforeAdding = result\n    result += digit.toUInt()\n    if (result < beforeAdding) return null // overflow has happened\n}\n\nreturn result\n}\n\n**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n * ^\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\n\n **\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n * ^\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n * ^\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun String.toULongOrNull(radix: Int): ULong? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0) return null\n\n    val limit: ULong = ULong.MAX_VALUE\n    val start: Int\n\n    val firstChar = this[0]\n    if (firstChar < '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val limitForMaxRadix = 512409557603043100uL // limit / 36\n\n    var limitBeforeMul = limitForMaxRadix\n    val uradix = radix.toULong()\n    var result = 0uL\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n            }\n            if (result > limitBeforeMul) {\n                return null\n            }\n        } else {\n            return null\n        }\n    }\n\n    result *= uradix\n\n    val beforeAdding = result\n    result += digit.toUInt()\n    if (result < beforeAdding) return null // overflow has happened\n}\n\nreturn result\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * ^\n @file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n package kotlin\n\n import kotlin.annotation.AnnotationTarget\n\n *\n import kotlin.internal.RequireKotlin\n\n import kotlin.internal.RequireKotlinVersionKind\n\n **\n * Marks the API that is dependent on the experimental unsigned types, including those types themselves.\n * ^\n * Usages of such API will be reported as warnings unless an explicit opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`\n * or with the `-Xopt-in=kotlin.ExperimentalUnsignedTypes` compiler option is given.\n * ^\n * It's recommended to propagate the experimental status to the API that depends on unsigned types by annotating it with this annotation.\n * ^\n @Suppress("DEPRECATION")\n @Experimental(level = Experimental.Level.WARNING)\n @RequiresOptIn(level = RequiresOptIn.Level.WARNING)\n @MustBeDocumented\n @Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)\n @Retention(AnnotationRetention.BINARY)\n @RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n public annotation class ExperimentalUnsignedTypes\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * ^\n @file:kotlin.jvm.JvmMultifileClass\n @file:kotlin.jvm.JvmName("MathKt")\n\n package kotlin.math\n\n\n // constants, can't use them from nativeMath as they are not constants there\n\n **\n Ratio of the circumference of a circle to its diameter, approximately 3.14159. \n * ^\n @SinceKotlin("1.2")\n\n public const val PI: Double = 3.141592653589793\n\n **\n Base of the natural logarithms, approximately 2.71828. \n * ^\n @SinceKotlin("1.2")\n\n public const val E: Double = 2.718281828459045\n\n // region =====\n\n Double Math =====\n\n\n **\n Computes the sine of the angle [x] given in radians.\n * ^\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n * ^\n @SinceKotlin("1.2")\n\n public

```

expect fun sin(x: Double): Double\n\n** Computes the cosine of the angle [x] given in radians.\n * \n * Special cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n * \n @SinceKotlin("1.2")\npublic expect fun cos(x: Double): Double\n\n** Computes the tangent of the angle [x] given in radians.\n * \n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n * \n @SinceKotlin("1.2")\npublic expect fun tan(x: Double): Double\n\n**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from $-\pi/2$ to $\pi/2$ radians.\n * \n * Special cases:\n * - `asin(x)` is `NaN`, when $abs(x) > 1$ or x is `NaN`\n * \n @SinceKotlin("1.2")\npublic expect fun asin(x: Double): Double\n\n**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from 0.0 to π radians.\n * \n * Special cases:\n * - `acos(x)` is `NaN`, when $abs(x) > 1$ or x is `NaN`\n * \n @SinceKotlin("1.2")\npublic expect fun acos(x: Double): Double\n\n**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from $-\pi/2$ to $\pi/2$ radians.\n * \n * Special cases:\n * - `atan(NaN)` is `NaN`\n * \n @SinceKotlin("1.2")\npublic expect fun atan(x: Double): Double\n\n**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value y / x ;\n * the returned value is an angle in the range from $-\pi$ to π radians.\n * \n * Special cases:\n * - `atan2(0.0, 0.0)` is 0.0 \n * - `atan2(0.0, x)` is 0.0 for $x > 0$ and π for $x < 0$ \n * - `atan2(-0.0, x)` is -0.0 for $x > 0$ and $-\pi$ for $x < 0$ \n * - `atan2(y, +Inf)` is 0.0 for $0 < y < +Inf$ and -0.0 for $-Inf < y < 0$ \n * - `atan2(y, -Inf)` is π for $0 < y < +Inf$ and $-\pi$ for $-Inf < y < 0$ \n * - `atan2(y, 0.0)` is $\pi/2$ for $y > 0$ and $-\pi/2$ for $y < 0$ \n * - `atan2(+Inf, x)` is $\pi/2$ for finite `x`\n * - `atan2(-Inf, x)` is $-\pi/2$ for finite `x`\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n * \n @SinceKotlin("1.2")\npublic expect fun atan2(y: Double, x: Double): Double\n\n**\n * Computes the hyperbolic sine of the value [x].\n * \n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is $+Inf$ \n * - `sinh(-Inf)` is $-Inf$ \n * \n @SinceKotlin("1.2")\npublic expect fun sinh(x: Double): Double\n\n**\n * Computes the hyperbolic cosine of the value [x].\n * \n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is $+Inf$ \n * \n @SinceKotlin("1.2")\npublic expect fun cosh(x: Double): Double\n\n**\n * Computes the hyperbolic tangent of the value [x].\n * \n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is 1.0 \n * - `tanh(-Inf)` is -1.0 \n * \n @SinceKotlin("1.2")\npublic expect fun tanh(x: Double): Double\n\n**\n * Computes the inverse hyperbolic sine of the value [x].\n * \n * The returned value is `y` such that $\sinh(y) == x$.\n * \n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is $+Inf$ \n * - `asinh(-Inf)` is $-Inf$ \n * \n @SinceKotlin("1.2")\npublic expect fun asinh(x: Double): Double\n\n**\n * Computes the inverse hyperbolic cosine of the value [x].\n * \n * The returned value is positive `y` such that $\cosh(y) == x$.\n * \n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when $x < 1$ \n * - `acosh(+Inf)` is $+Inf$ \n * \n @SinceKotlin("1.2")\npublic expect fun acosh(x: Double): Double\n\n**\n * Computes the inverse hyperbolic tangent of the value [x].\n * \n * The returned value is `y` such that $\tanh(y) == x$.\n * \n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)` is `NaN` when $x > 1$ or $x < -1$ \n * - `tanh(1.0)` is $+Inf$ \n * - `tanh(-1.0)` is $-Inf$ \n * \n @SinceKotlin("1.2")\npublic expect fun atanh(x: Double): Double\n\n**\n * Computes $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow.\n * \n * Special cases:\n * - returns $+Inf$ if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n * \n @SinceKotlin("1.2")\npublic expect fun hypot(x: Double, y: Double): Double\n\n**\n * Computes the positive square root of the value [x].\n * \n * Special cases:\n * - `sqrt(x)` is `NaN` when $x < 0$ or `x` is `NaN`\n * \n @SinceKotlin("1.2")\npublic expect fun sqrt(x: Double): Double\n\n**\n * Computes Euler's number `e` raised to the power of the value [x].\n * \n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is $+Inf$ \n * - `exp(-Inf)` is 0.0 \n * \n @SinceKotlin("1.2")\npublic expect fun exp(x: Double): Double\n\n**\n * Computes $\exp(x) - 1$.\n * \n * This function can be implemented to produce more precise result for [x] near zero.\n * \n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is $+Inf$ \n * - `expm1(-Inf)` is -1.0 \n * \n * @see [exp] function.\n * \n @SinceKotlin("1.2")\npublic expect fun expm1(x: Double): Double\n\n**\n * Computes the logarithm of the value [x] to the given [base].\n * \n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `NaN` when $x < 0$ or $b \leq 0$ or $b == 1.0$ \n * - `log(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is $+Inf$ for $b > 1$ and $-Inf$ for $b < 1$ \n * - `log(0.0, b)` is $-Inf$ for $b > 1$ and $+Inf$ for $b < 1$ \n * \n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n

`*\n@SinceKotlin("1.2")\npublic expect fun log(x: Double, base: Double): Double\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when `x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin("1.2")\npublic expect fun ln(x: Double): Double\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n * @see [ln] function for special cases.\n */\n@SinceKotlin("1.2")\npublic expect fun log10(x: Double): Double\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n * @see [ln] function for special cases.\n */\n@SinceKotlin("1.2")\npublic expect fun log2(x: Double): Double\n\n/**\n * Computes `ln(x + 1)`.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x < -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is `+Inf`\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin("1.2")\npublic expect fun ln1p(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun ceil(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun floor(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n * @return the value [x] having its fractional part truncated.\n * Special cases:\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun truncate(x: Double): Double\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n * Special cases:\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun round(x: Double): Double\n\n/**\n * Returns the absolute value of the given value [x].\n * Special cases:\n * - `abs(NaN)` is `NaN`\n * @see absoluteValue extension property for [Double]\n */\n@SinceKotlin("1.2")\npublic expect fun abs(x: Double): Double\n\n/**\n * Returns the sign of the given value [x]:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n * Special case:\n * - `sign(NaN)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun sign(x: Double): Double\n\n/**\n * Returns the smaller of two values.\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin("1.2")\npublic expect fun min(a: Double, b: Double): Double\n\n/**\n * Returns the greater of two values.\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin("1.2")\npublic expect fun max(a: Double, b: Double): Double\n\n\n/**\n * Raises this value to the power [x].\n * Special cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is `NaN`\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin("1.2")\npublic expect fun Double.pow(x: Double): Double\n\n/**\n * Raises this value to the integer power [n].\n * See the other overload of [pow] for details.\n */\n@SinceKotlin("1.2")\npublic expect fun Double.pow(n: Int): Double\n\n/**\n * Returns the absolute value of this value.\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n * @see abs function\n */\n@SinceKotlin("1.2")\npublic expect val Double.absoluteValue: Double\n\n/**\n * Returns the sign of this value:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n * Special case:\n * - `NaN.sign` is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect val Double.sign: Double\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin("1.2")\npublic expect fun Double.withSign(sign: Double): Double\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin("1.2")\npublic expect fun Double.withSign(sign: Int): Double\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\n * Special Cases:\n * - `NaN.ulp` is `NaN`\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n * - `0.0.ulp` is `Double.MIN_VALUE`\n */\n@SinceKotlin("1.2")\npublic expect val Double.ulp: Double\n\n/**\n * Returns the [Double] value nearest to`

this value in direction of positive infinity.
`Double.nextUp()`: Returns the [Double] value nearest to this value in direction of negative infinity.
`Double.nextDown()`: Returns the [Double] value nearest to this value in direction from this value towards the value [to].
Special cases:
`x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`.
`x.nextTowards(x) == x`
`Double.nextTowards(to: Double)`: Rounds this [Double] value to the nearest integer and converts the result to [Int].
Ties are rounded towards positive infinity.
Special cases:
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`
`x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`
@throws `IllegalArgumentException` when this value is `NaN`
`Double.roundToInt(): Int`: Rounds this [Double] value to the nearest integer and converts the result to [Long].
Ties are rounded towards positive infinity.
Special cases:
`x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`
`x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`
@throws `IllegalArgumentException` when this value is `NaN`
`Double.roundToLong(): Long`
===== Float Math
===== Computes the sine of the angle [x] given in radians.
Special cases:
`sin(NaN|+Inf|-Inf)` is `NaN`
`sin(x: Float): Float`: Computes the cosine of the angle [x] given in radians.
Special cases:
`cos(NaN|+Inf|-Inf)` is `NaN`
`cos(x: Float): Float`: Computes the tangent of the angle [x] given in radians.
Special cases:
`tan(NaN|+Inf|-Inf)` is `NaN`
`tan(x: Float): Float`: Computes the arc sine of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians.
Special cases:
`asin(x)` is `NaN`, when `abs(x) > 1` or `x` is `NaN`
`asin(x: Float): Float`: Computes the arc cosine of the value [x]; the returned value is an angle in the range from `0.0` to `PI` radians.
Special cases:
`acos(x)` is `NaN`, when `abs(x) > 1` or `x` is `NaN`
`acos(x: Float): Float`: Computes the arc tangent of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians.
Special cases:
`atan(NaN)` is `NaN`
`atan(x: Float): Float`: Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond to the rectangular coordinates `(x, y)` by computing the arc tangent of the value `[y] / [x]`; the returned value is an angle in the range from `-PI` to `PI` radians.
Special cases:
`atan2(0.0, 0.0)` is `0.0`
`atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`
`atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`
`atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`
`atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`
`atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`
`atan2(+Inf, x)` is `PI/2` for finite `x`
`atan2(-Inf, x)` is `-PI/2` for finite `x`
`atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`
`atan2(y: Float, x: Float): Float`: Computes the hyperbolic sine of the value [x].
Special cases:
`sinh(NaN)` is `NaN`
`sinh(+Inf)` is `+Inf`
`sinh(-Inf)` is `-Inf`
`sinh(x: Float): Float`: Computes the hyperbolic cosine of the value [x].
Special cases:
`cosh(NaN)` is `NaN`
`cosh(+Inf|-Inf)` is `+Inf`
`cosh(x: Float): Float`: Computes the hyperbolic tangent of the value [x].
Special cases:
`tanh(NaN)` is `NaN`
`tanh(+Inf)` is `1.0`
`tanh(-Inf)` is `-1.0`
`tanh(x: Float): Float`: Computes the inverse hyperbolic sine of the value [x].
The returned value is `y` such that `sinh(y) == x`.
Special cases:
`asinh(NaN)` is `NaN`
`asinh(+Inf)` is `+Inf`
`asinh(-Inf)` is `-Inf`
`asinh(x: Float): Float`: Computes the inverse hyperbolic cosine of the value [x].
The returned value is positive `y` such that `cosh(y) == x`.
Special cases:
`acosh(NaN)` is `NaN`
`acosh(x)` is `NaN` when `x < 1`
`acosh(+Inf)` is `+Inf`
`acosh(x: Float): Float`: Computes the inverse hyperbolic

tangent of the value [x].
`* The returned value is `y` such that $\tanh(y) == x$.`
`* Special cases:`
`- $\tanh(\text{NaN})$ is NaN`
`- $\tanh(x)$ is NaN when $x > 1$ or $x < -1$`
`- $\tanh(1.0)$ is $+\text{Inf}$`
`- $\tanh(-1.0)$ is $-\text{Inf}$`
`@SinceKotlin("1.2")\npublic expect fun atanh(x: Float): Float\n/**\n * Computes $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow.\n * Special cases:\n * - returns $+\text{Inf}$ if any of arguments is infinite\n * - returns NaN if any of arguments is NaN and the other is not infinite\n */\n@SinceKotlin("1.2")\npublic expect fun hypot(x: Float, y: Float): Float\n/**\n * Computes the positive square root of the value [x].\n * Special cases:\n * - \sqrt{x} is NaN when $x < 0$ or x is NaN \n */\n@SinceKotlin("1.2")\npublic expect fun sqrt(x: Float): Float\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n * Special cases:\n * - $\exp(\text{NaN})$ is NaN \n * - $\exp(+\text{Inf})$ is $+\text{Inf}$ \n * - $\exp(-\text{Inf})$ is 0.0 \n */\n@SinceKotlin("1.2")\npublic expect fun exp(x: Float): Float\n/**\n * Computes $\exp(x) - 1$.
This function can be implemented to produce more precise result for [x] near zero.
Special cases:
- $\expm1(\text{NaN})$ is NaN
- $\expm1(+\text{Inf})$ is $+\text{Inf}$
- $\expm1(-\text{Inf})$ is -1.0
@see [exp] function.\n */\n@SinceKotlin("1.2")\npublic expect fun expm1(x: Float): Float\n/**\n * Computes the logarithm of the value [x] to the given [base].
Special cases:
- $\log(x, b)$ is NaN if either x or b are NaN
- $\log(x, b)$ is NaN when $x < 0$ or $b \leq 0$ or $b == 1.0$
- $\log(+\text{Inf}, +\text{Inf})$ is NaN
- $\log(+\text{Inf}, b)$ is $+\text{Inf}$ for $b > 1$ and $-\text{Inf}$ for $b < 1$
- $\log(0.0, b)$ is $-\text{Inf}$ for $b > 1$ and $+\text{Inf}$ for $b > 1$ \n */\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin("1.2")\npublic expect fun log(x: Float, base: Float): Float\n/**\n * Computes the natural logarithm (base `E`) of the value [x].
Special cases:
- $\ln(\text{NaN})$ is NaN
- $\ln(x)$ is NaN when $x < 0.0$
- $\ln(+\text{Inf})$ is $+\text{Inf}$
- $\ln(0.0)$ is $-\text{Inf}$ \n */\n@SinceKotlin("1.2")\npublic expect fun ln(x: Float): Float\n/**\n * Computes the common logarithm (base 10) of the value [x].
@see [ln] function for special cases.\n */\n@SinceKotlin("1.2")\npublic expect fun log10(x: Float): Float\n/**\n * Computes the binary logarithm (base 2) of the value [x].
@see [ln] function for special cases.\n */\n@SinceKotlin("1.2")\npublic expect fun log2(x: Float): Float\n/**\n * Computes $\ln(a + 1)$.
This function can be implemented to produce more precise result for [x] near zero.
Special cases:
- $\ln1p(\text{NaN})$ is NaN
- $\ln1p(x)$ is NaN where $x < -1.0$
- $\ln1p(-1.0)$ is $-\text{Inf}$
- $\ln1p(+\text{Inf})$ is $+\text{Inf}$ \n */\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin("1.2")\npublic expect fun ln1p(x: Float): Float\n/**\n * Rounds the given value [x] to an integer towards positive infinity.
@return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.
Special cases:
- $\text{ceil}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun ceil(x: Float): Float\n/**\n * Rounds the given value [x] to an integer towards negative infinity.
@return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.
Special cases:
- $\text{floor}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun floor(x: Float): Float\n/**\n * Rounds the given value [x] to an integer towards zero.
@return the value [x] having its fractional part truncated.
Special cases:
- $\text{truncate}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun truncate(x: Float): Float\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.
Special cases:
- $\text{round}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.\n */\n@SinceKotlin("1.2")\npublic expect fun round(x: Float): Float\n/**\n * Returns the absolute value of the given value [x].
Special cases:
- $\text{abs}(\text{NaN})$ is NaN
@see absoluteValue extension property for [Float]\n */\n@SinceKotlin("1.2")\npublic expect fun abs(x: Float): Float\n/**\n * Returns the sign of the given value [x]:
- -1.0 if the value is negative,
- zero if the value is zero,
- 1.0 if the value is positive
Special case:
- $\text{sign}(\text{NaN})$ is NaN \n */\n@SinceKotlin("1.2")\npublic expect fun sign(x: Float): Float\n/**\n * Returns the smaller of two values.
If either value is NaN , then the result is NaN .
@SinceKotlin("1.2")\npublic expect fun min(a: Float, b: Float): Float\n/**\n * Returns the greater of two values.
If either value is NaN , then the result is NaN .
@SinceKotlin("1.2")\npublic expect fun max(a: Float, b: Float): Float\n/**\n * Raises this value to the power [x].
Special`

cases: `b.pow(0.0)` is `1.0` `b.pow(1.0) == b` `b.pow(NaN)` is `NaN` `NaN.pow(x)` is `NaN` for `x != 0.0` `b.pow(Inf)` is `NaN` for `abs(b) == 1.0` `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer

`SinceKotlin("1.2")` public expect fun `Float.pow(x: Float): Float` Raises this value to the integer power [n]. See the other overload of [pow] for details.

`SinceKotlin("1.2")` public expect fun `Float.pow(n: Int): Float` Returns the absolute value of this value. Special cases: `NaN.absoluteValue` is `NaN` @see abs function

`SinceKotlin("1.2")` public expect val `Float.absoluteValue: Float` Returns the sign of this value: `-1.0` if the value is negative, `0` if the value is zero, `1.0` if the value is positive. Special case: `NaN.sign` is `NaN`

`SinceKotlin("1.2")` public expect val `Float.sign: Float` Returns this value with the sign bit same as of the [sign] value. If [sign] is `NaN` the sign of the result is undefined.

`SinceKotlin("1.2")` public expect fun `Float.withSign(sign: Float): Float` Returns this value with the sign bit same as of the [sign] value.

`SinceKotlin("1.2")` public expect fun `Float.withSign(sign: Int): Float` Rounds this [Float] value to the nearest integer and converts the result to [Int]. Ties are rounded towards positive infinity. Special cases: `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE` `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE` @throws `IllegalArgumentException` when this value is `NaN`

`SinceKotlin("1.2")` public expect fun `Float.roundToInt(): Int` Rounds this [Float] value to the nearest integer and converts the result to [Long]. Ties are rounded towards positive infinity. Special cases: `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE` `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE` @throws `IllegalArgumentException` when this value is `NaN`

`SinceKotlin("1.2")` public expect fun `Float.roundToLong(): Long` endregion region
===== Integer Math ===== Returns the absolute value of the given value [n]. Special cases: `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow @see absoluteValue extension property for [Int]

`SinceKotlin("1.2")` public expect fun `abs(n: Int): Int` Returns the smaller of two values.

`SinceKotlin("1.2")` public expect fun `min(a: Int, b: Int): Int` Returns the greater of two values.

`SinceKotlin("1.2")` public expect fun `max(a: Int, b: Int): Int` Returns the absolute value of this value. Special cases: `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow @see abs function

`SinceKotlin("1.2")` public expect val `Int.absoluteValue: Int` Returns the sign of this value: `-1` if the value is negative, `0` if the value is zero, `1` if the value is positive

`SinceKotlin("1.2")` public expect val `Int.sign: Int` Returns the absolute value of the given value [n]. Special cases: `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow @see absoluteValue extension property for [Long]

`SinceKotlin("1.2")` public expect fun `abs(n: Long): Long` Returns the smaller of two values.

`SinceKotlin("1.2")` public expect fun `min(a: Long, b: Long): Long` Returns the greater of two values.

`SinceKotlin("1.2")` public expect fun `max(a: Long, b: Long): Long` Returns the absolute value of this value. Special cases: `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow @see abs function

`SinceKotlin("1.2")` public expect val `Long.absoluteValue: Long` Returns the sign of this value: `-1` if the value is negative, `0` if the value is zero, `1` if the value is positive

`SinceKotlin("1.2")` public expect val `Long.sign: Int` endregion

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I,UAAW,SAAQ,QAAR,EAAkB,CAAI,CAAX,GAakC,CAAtC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAjB
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De,uB;UAAtB,iBAAc,CAAd,wB;YACI,gBAAc,UAO DU,SApDV,CAAU,KAAV,EAAiB,0BAAjB,EAA8B,iCAA
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N,I;;QAC/B,MAAa,gCAAYB,eAAzB,C;K;IAGzB,uD;MAkBI,sBAAO,CAAP,C;QAD+E,OAC/D,sBAAS,GAAT,MAAJ,GAakB,GAAIB,GAA2B,aAAM,mBAAiB,GAAjB,EAAsB,KAAtB,EAA6B,IAA7B,CAAN,C;WACvC,sBAAO,CAAP,C;QAF+E,OAE/D,sBAAS,GAAT,MAAJ,GAakB,GAAIB,GAA2B,QAAM,mBAAiB,KAAjB,EAAB,GAAxB,EAA8B,IAAD,aAA7B,CAAN,C;;QAC/B,MAAa,gCAAYB,eAAzB,C;K;IC7DjB,kD;MAAA,8B;MACI,aAAy,C;K;oDACZ,Y;MAAYB,oBAAQ,gBAAI,O;K;iDACrC,Y;MAAgD,Q;MAA1B,IAAI,aAAQ,gBAAI,OAaHb,C;QAAA,OAAsB,iBAAI,iBAAJ,EAAI,yBAAJ,O;;QAAkB,MAAM,2BAAYB,UAAF,WAAvB,C;K;;IAPhF,oC;MAEI,IAD8D,IAC9D,S;QACI,UAA0B,K;QAF0B,2C;;QAAA,QAAM,IAAN,C;eASxD,c;YATwD,OAStC,qBAAqB,KAArB,C;eACIB,W;YAVwD,OAUzC,kBAAkB,KAAIB,C;eACf,Y;YAXwD,OAwxC,mBAAMB,KAAAnB,C;eAChB,W;YAZwD,OAYzC,kBAAkB,KAAIB,C;eACf,U;YAbwD,OAa1C,iBAAiB,KAAjB,C;eACd,W;YAdwD,OAzcC,kBAAkB,KAAIB,C;eACf,Y;YAfWd,OAexC,mBAAMB,KAAAnB,C;eAChB,a;YAhBwD,OAgbvC,oBAAoB,KAApB,C;kBACT,MAAM,6BAAsB,2DAA+C,IAA/C,CAAtB,C;;K;IAIuC,2D;MAAA,kC;MAAS,0B;MAC9D,aAAY,C;K;2DACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;+DACvC,Y;MAA2D,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAYB,UAAF,WAAvB,C;K;;IAJnF,qC;MACyD,oD;K;IAON,wD;MAAA,kC;MAAS,uB;MACxD,aAAY,C;K;wDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;yDACvC,Y;MAAwD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAYB,UAAF,WAAvB,C;K;;IAJhF,kC;MACmD,iD;K;IAOE,yD;MAAA,kC;MAAS,wB;MAC1D,aAAY,C;K;yDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;2DACvC,Y;MAAYD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAYB,UAAF,WAAvB,C;K;;IAJf,mC;MACqD,kD;K;IAOF,wD;MAAA,kC;MAAS,uB;MACxD,aAAY,C;K;wDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;yDACvC,Y;MAAwD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAYB,UAAF,WAAvB,C;K;;IAJf,mC;MACqD,kD;K;IAOF,uD;MAAA,kC;MAAS,sB;MACtD,aAAY,C;K;uDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;uDACvC,Y;MAAuD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAYB,UAAF,WAAvB,C;K;;IAJf,mC;MACqD,kD;K;IAOE,0D;MAAA,kC;MAAS,yB;MAC5D,aAAY,C;K;0DACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;6DACvC,Y;MAA0D,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAYB,UAAF,WAAvB,C;K;;IAJf,mC;MACqD,kD;K;IAOE,0D;MAAA,kC;MAAS,uB;MACxD,aAAY,C;K;wDACZ,Y;MAAYB,oBAAQ,kBAAM,O;K;yDACvC,Y;MAAwD,Q;MAA9B,IAAI,aAAQ,kBAAM,OAAIB,C;QAAA,OAAwB,mBAAM,iBAAN,EAAM,yBAAN,O;;QAAoB,MAAM,2BAAYB,UAAF,WAAvB,C;K;;IAJhF,kC;MACmD,iD;K;IAOpB,gC;MAAC,wB;K;;IAEhC,+B;MAC8C,MAAM,mC;K;IAEpD,8C;MAEI,IAAI,qBAAJ,C;QACI,OAAO,CrBmIIF,WqBnIrE,UrBmIqE,EqBnIzD,QrBmIyD,C;;QqBjIxF,OAAS,CAAY,qBAAsB,UAAtB,EAAC,QAAlC,C;;K;IAI7B,2C;MAEI,IAAI,KAAy,kBAAhB,C;QAGI,KAAy,mBAAkB,QAAIB,C;;QAEH,QAAT,SA A+C,CAAIB,IAAjC,KAAiC,EAakB,O;;K;IAIvD,sC;MAGwB,Q;MADpB,gBAAgB,IAAhB,KAAgB,E;MACI,IAAI,OCnGkB,ODmGT,OAAT,EAAqB,WAArB,CAAJ,C;QACHB,OAAl,aAAJ,GAAMB,KAAAM,WAAzB,GAAyC,I;;QAEzC,c;;MAHJ,wB;MAKA,kBAakB,K;MACIB,iBAAiB,W;MACjB,OAAO,S;K;IAIa,sB;MAAC,U;K;iCACrB,iB;MACI,OAAO,mCAAsB,WAAK,KAAAM,E;K;mCAG5C,Y;MACI,OAAO,M;K;mCAGX,Y;MACI,OAAuC,oBAAAnB,UAA5B,IAAe,EAAa,CAAmB,C;K;0CAG3C,iB;MACI,OAAR,IAAI,EAAW,GAAN,K;K;kCAGL,Y;MAEI,OAAO,M;K;;+DAIf,gB;MAEI,YAAY,MAAY,IAAK,OAAjB,C;MACZ,sBAAU,IAAV,a;QACI,UAAU,KAAK,CAAL,C;QACV,IAAI,oBAAJ,C;UACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;UAE1B,MAAM,CAAN,IAAW,G;;MAGnB,OAAO,EAAS,OAAO,OAAM,EAAN,EAAGB,KAAhB,C;K;IAG3B,2B;MAMW,WAAO,S;MAIBd,YAAY,MAAY,IAAK,OAAjB,C;MACZ,sBAAU,IAAV,a;QACI,UAAU,KAAK,CAAL,C;QACV,IAAI,oBAAJ,C;UACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;UAE1B,MAAM,CAAN,IAAW,G;;MAYnB,OATO,EAAS,OAAO,OAAM,EAAN,EAAGB,KAAhB,C;K;IAY3B,oC;MAWI,WAAqB,S;MACrB,IAAI,qBAAmB,CAAY,OAAAd,KAA2B,SAAhD,C;QAJCA,YAAY,MAkCM,IAICW,OAAjB,C;QACZ,sBAiCkC,IAjCIB,a;UACI,UAGcC,IAhCJ,CAAK,CAAL,C;UACV,IAAI,oBAAJ,C;YACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;YAE1B,MAAM,CAAN,IAAW,G;;QA4Bf,OAzBG,EAAS,OAAO,OAAM,EAAN,EAAGB,KAAhB,C;;QA2

BnB, WAAW, C; QACX, 0BAAU, IAAV, e; UACY, IAAoB, I; UAA5B, eAAQ, QAAoB, OAApB, IAAQ, CAAH, GAAG, CAAY, OAApB, oCAAR, K;; QAEJ, aAAa, IAAjB, CAAC, YAAgB, CAAH, IAAG, C; QE3FjB, IF4FyB, CE5FhB, OAAL, KAAkB, SAAtB, C; UF4F4B, ME3FxB, UF2FqB, CE3FF, O; SF4FnB, OAAO, C; QACP, 0BAAU, IAAV, e; UAE0B, YACX, M; UAFX, YAAU, IAAQ, CAAH, GAAG, C; UACI, SAAJ, KAAI, O; UAAtB, aAAU, CAAV, kB; YACI, OAAO, aAAP, EAAO, qBAAP, YAAiB, MAAl, CAAJ, C;;; QAGzB, OAAO, M;; K; IAIf, 0B; MACgC, WAAS, c; MAAT, YAAhC, EAAE, MAAM, KAAiD, CAA3C, SAA2C, C; MAWtD, eAAiB, I; MAXW, OAYrB, K; K; IAVX, uB; MAC6B, WAAS, W; MAAT, YAA5B, IAA/C, WAA+C, CAAnc, EAAE, MAAM, KAAK, CAAC, SAAD, CAA5B, C; MAQ/C, eAAiB, I; MARQ, OASlB, K; K; IAPX, uB; MAC6B, WAAS, W; MAAT, YAA7B, EAAE, MAAM, KAA2C, CAArC, SAAqC, C; MAK/C, eAAiB, I; MALQ, OAMiB, K; K; 2DAjX, uB; MAGI, eAAiB, I; MACjB, OAAO, K; K; kEG9MX, yB; MAAA, 0B; MAAA, uB; QAU, OAAoB, OAAb, IhD6K+B, KAAL, GAAiB, KgD7K9B, C; O; KAVxB, C; ICiQ, C, 2C; MAAC, 8C; MACiC, eAA5B, C; MACtB, wBAA+B, C; MAC/B, gBAA6B, I; MAC7B, mBAA5C, I; MACtC, qBAAyC, I; MAEzC, yBAAgD, yBAAmB, Q; MAEnE, sBAAgD, I; K; wFAFhD, Y; MAAA, 6B; K; 0CAIA, Y; MAEY, kBADR, M; MAAA, U; MAAA, 2C; QAAA, e;; QAES, gBADD, 2CAAQ, yCAAR, gDAAwD, IAAXD, 6BAAiE, I; QACzD, sBrCwEd, S; QqC1EF, SrC2EG, S;; MqC3EH, a; K; iDAIJ, kB; MACI, kBAAc, IAAd, C; MACiC, oB; MCsBrB, Q; MADR, IDrBsB, MCqBtB, W; QADJ, mBACiB, I;; QADjB, mBAEY, QDtBc, MCsBd, +D;; MDtBZ, yC; MACA, 2BAAmC, MAAO, kBAA1C, C; MAGA, OAAO, IAAP, C; QrCoCY, gBqCnCH, S;; QACD, iBAAiB, 8B; QAGjB, IAAI, 0BAAJ, C; UACI, qBAAc, e;; UAE, oBAAQ, 0B; UACR, wBAAy, kB;; UAIZ, cAAc, oB; UACd, IAAI, YAAy, yBAAhB, C; YAAqC, M; UACrC, kBAAgB, O; UACHB, qBAAmB, I;; UAE, nB, kBAAgB, I; UACHB, qBAAmB, S;; QAGvB, gC; QAEA, IAAI, wCAAJ, C; UAEI, YAAU, U;; UAGV, U; UAAA, 0C; YETH, 8BD+CQ, WAAO, qBAAP, CC/CR, C; YFSgB, a;; YAAA, a; UAAA, mB; YAEK, UEpBrB, oBD+CQ, WD3B+B, eC2B/B, CC/CR, C; WFqBgB, M;;; K; mDAMhB, Y; MACI, kBAAkB, mB; MACIB, IAAI, uBAAuB, gBAAgB, IAA3C, C; QACI, uCAAQ, yCAAR, EAAmC, wCAA+B, WAA/B, C; OAEvC, sBAAoB, mC; K;; IAM5B, iC; MAAA, qC; K; gGAEQ, Y; MxC0DyC, MAAM, 6BwC1DjC, uCxC0D+D, WAA9B, C; K; yDwCxDnD, kB; MxCwD6C, MAAM, 6BwCvDzC, uCxCuD uE, WAA9B, C; K; +CwCpDnD, Y; MAAkC, 8C; K;; IARtC, 6C; MAAA, 4C; QAAA, 2B; OAAA, qC; K; IGyDA, mG; IAA, yH; IAAA, 6F; MAKW, kC; MAAS, 4C; K; IALpB, sEAMQ, Y; MACI, Q; MAAA, sC; QAAiB, U; OACjB, OAAO, oB; K; IARnB, 6G; sJAjIA, iC; MAgBU, OAAK, SAAL, CAAiB, UAAjB, EAA6B, KAA7B, C; K; wJAEV, 2C; MAiBU, OAAK, SAAL, CAAiB, QAAjB, EAA2B, UAA3B, EAAuC, KAAvC, C; K; wJAEV, kD; MAKU, OAAK, SAAL, CAAiB, QAAjB, EAA2B, KAA3B, EAAkC, UAAIC, EAA8C, KAA9C, C; K; IAGc6C, oG; MAAA, mB; QAC3C, OAAK, iCAAL, CAAiB, kBAAjB, C; O; K; IA/BZ, 6D; MA0BI, IAAS, SAAy, OAAjB, IAA2B, CAA/B, C; QAAA, OAES, SAAL, CAAiB, UAAjB, EAA6B, IAA7B, C;; QA8D0B, Q; QAhE9B, 4DAImD, 0DAJnD, EAAG8B, qBA5DS, UA4DT, qCAhE9B, C;; K; IAwCmD, wH; MAAA, mB; QAC3C, OAAK, iCAAL, CAAiB, gBAAjB, EAA2B, kBAA3B, C; O; K; IAHCZ, yE; MA2BI, IAAS, SAAy, OAAjB, IAA2B, CAA/B, C; QAAA, OAES, SAAL, CAAiB, QAAjB, EAA2B, UAA3B, EAAuC, IAAvC, C;; QA0B0B, Q; QA5B9B, 4DAImD, sEAJnD, EA4B8B, qBAxBs, UAwBT, qCA5B9B, C;; K; IASJ, gC; MAWK, kBAAAD, M; MAAA, kBAAc, qEAAD, 4DAA2C, S; K; 6CAG/C, yB; MAAA, mG; MAAA, yH; MAAA, 6F; QAKW, kC; QAAS, 4C; O; MALpB, sEAMQ, Y; QACI, Q; QAAA, sC; UAAiB, U; SACjB, OAAO, oB; O; MARnB, 6G; MAAA, oC; QAKkC, Q; QAA9B, mEAA8B, oEAA9B, C; O; KALJ, C; iFC7HA, a; MAC6C, OAAA, MAaA, YAAW, CAAX, C; K; ICM3B, iC;; MAA6E, Q; MAAA, +BAAS, I; sCAAI, O, 2DAAA, O;; K;; IAC/F, 2B; MAAA, iD; MAAuB, oBAAK, IAAL, EAAW, IAAX, C; MAAvB, Y; K; IACA, sC; MAAA, iD; MAAuC, oBAAK, OAAL, EAAC, IAAd, C; MAAvC, Y; K; IACA, oC; MAAA, iD; MAAwC, oBAAK, SAAL, EAAgB, KAAhB, C; MAAxC, Y; K; IAI+B, mC;; MAA6E, Q; MAAA, +BAAS, I; sCAAI, O, 2DAAA, O;; K;; IACnG, +B; MAAA, mD; MAAuB, sBAAK, IAAL, EAAW, IAAX, C; MAAvB, Y; K; IACA, 0C; MAAA, mD; MAAuC, sBAAK, OAAL, EAAC, IAAd, C; MAAvC, Y; K; IACA, wC; MAAA, mD; MAAwC, sBAAK, SAAL, EAAgB, KAAhB, C; MAAxC, Y; K; IAGsC, 0C; MAA0D, qBAAU, OAAV, EAAM, KAAnc, C;; K;; IACHG, sC; MAAA, 0D; MAAuB, 6BAAK, IAAL, EAAW, IAAX, C; MAAvB, Y; K; IACA, iD; MAAA, 0D; MAAuC, 6BAAK, OAAL, EAAC, IAAd, C; MAAvC, Y; K; IACA, +C; MAAA, 0D; MAAwC, 6BAAK, SAAL, EAAgB, KAAhB, C; MAAxC, Y; K; IAG8C, kD; MAA0D, 4BAAiB, OAAjB, EAA0B, KAA1B, C;; K;; IACxG, 8C; MAAA, kE; MAAuB, qCAAK, IAAL, EAAW, IAAX, C; MAAvB, Y; K; IACA, yD; MAAA, kE; MAAuC, qCAAK, OAAL, EAAC, IAAd, C; MAAvC, Y; K; IACA, uD; MAAA, kE; MAAwC, qCAAK, SAAL, EAAgB, KAAhB, C; MAAxC, Y; K; IAG2C, +C; MAA0D, 4BAAiB, OAAjB, EAA0B, KAA1B, C;; K;; IACrG, 2C; MAAA, +D; MAAuB, kCAAK, IAAL, EAAW, IAAX, C; MAAvB, Y; K; IACA, sD; MAAA, +D; MAAuC, kCAAK, OAAL, EAAC, IAAd, C; MAAvC, Y; K; IACA, oD; MAAA, +D; MAAwC, kCAAK, SAAL, EAAgB, KAAhB, C; MAAxC, Y; K;

IAG+C,4C;8BAAwD,O;;K;;IACvG,+C;MAAA,mE;MAAuB,sCAAK,IAAL,C;MAAvB,Y;K;IAGqD,yD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IAC/G,qD;MAAA,yE;MAAuB,4CAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,gE;MAAA,yE;MAAuC,4CAAK,OAAL,EAAC,IAAd,C;MAAvC,Y;K;IACA,8D;MAAA,yE;MAAwC,4CAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;IAGmD,uD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IAC7G,mD;MAAA,uE;MAAuB,0CAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,8D;MAAA,uE;MAAuC,0CAAK,OAAL,EAAC,IAAd,C;MAAvC,Y;K;IACA,4D;MAAA,uE;MAAwC,0CAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;IAI2C,wC;sCAAgE,O;;K;;IAC3G,2C;MAAA,+D;MAAuB,kCAAK,IAAL,C;MAAvB,Y;K;IAI0C,uC;8BAAwD,O;;K;;IACIG,0C;MAAA,8D;MAAuB,iCAAK,IAAL,C;MAAvB,Y;K;IAGwC,qC;8BAAwD,O;;K;;IACgH,wC;MAAA,4D;MAAuB,+BAAK,IAAL,C;MAAvB,Y;K;IAIJ,wC;MACmD,mBAAM,OAAN,EAAe,KAaf,C;;K;;IAC/C,oC;MAAA,wD;MAAuB,sBAAK,IAAL,Q;MAAvB,Y;K;IACA,+C;MAAA,wD;MAAgC,2BAAK,OAAL,EAAC,IAAd,C;MAAhC,Y;K;IACA,+C;MAAA,wD;MAAiD,IAAY,I;MAAzB,2BAAa,SAAR,OAAQ,CAAb,EAAyB,sDAzB,C;MAApC,Y;K;IAG4C,yC;8BAAwD,O;;K;;IACpG,4C;MAAA,gE;MAAuB,mCAAK,IAAL,C;MAAvB,Y;K;IAIyC,sC;8BAAwD,O;;K;;IACjG,yC;MAAA,6D;MAAuB,gCAAK,IAAL,C;MAAvB,Y;K;IAGkD,sD;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IAC5G,kD;MAAA,sE;MAAuB,yCAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,6D;MAAA,sE;MAAuC,yCAAK,OAAL,EAAC,IAAd,C;MAAvC,Y;K;IACA,2D;MAAA,sE;MAAwC,yCAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;IAG0D,8D;MAA0D,4BAAiB,OAAjB,EAA0B,KAA1B,C;;K;;IACpH,0D;MAAA,8E;MAAuB,iDAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,qE;MAAA,8E;MAAuC,iDAAK,OAAL,EAAC,IAAd,C;MAAvC,Y;K;IACA,mE;MAAA,8E;MAAwC,iDAAK,SAAL,EAAGB,KAAhB,C;MAAxC,Y;K;6FCIGJ,yB;MAEI,OAAG,GAAG,CAAC,QAAD,C;K;mFAGV,oB;MAEI,OAAJ,GAAL,GAAE,G;K;6ETVN,a;MAK8C,cAAvC,C;K;6ECHP,Y;MAG+C,S;K;IA6B/C,2B;MAG4D,0BAAe,WAAf,C;K;IAE5D,mC;MAIwF,0BAAe,WAAf,C;K;IAExF,mC;MAKwE,0BAAe,WAAf,C;K;IAGxE,4B;MAI8D,Q;MAH1D,aAAkB,GAAL,O;MACTB,aAAkB,GAAL,O;MACTB,YAAiB,C;MACjB,OAAO,QAAQ,MAAR,IAAkB,QAAQ,MAAjC,C;QAAYC,IAAI,KAAJ,IAAa,IAAI,YAAJ,EAAI,oBAAJ,O;;MACtD,OAAO,G;K;IAIX,wD;MAMuC,Q;MALnC,aAAa,MAAO,OAAM,CAN,EAAS,OAAT,C;MA0BpB,IAzBc,MAyBL,OAAL,KAakB,SAAtB,C;QAzBsB,MA0BIB,UA1BU,MA0BS,O;OAzBvB,YAAiB,MAAO,O;MACxB,IAAI,UAAU,KAAAd,C;QACI,gBAAgB,O;QACHB,OAAO,QAAQ,OAaf,C;UAAwB,OAAO,YAAP,EAAO,oBAAP,UAAkB,Y;;OAE9C,OAAO,M;K;IAGX,gD;MAK0B,UAAmB,M;MAJnC,aAAa,KAAM,Q;MACnB,MAAO,OAAP,IAAiB,UAAW,K;MAc5B,IAbc,KAAaL,OAAL,KAakB,SAAtB,C;QAbqB,MAcjb,UAdU,KAcS,O;OAbvB,YAAiB,KAAM,O;MACP,4B;MAAhB,OAAGB,cAAhB,C;QAAgB,yB;QAAY,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MAC9C,OAAO,M;K;IAGX,yD;MAEoB,UAAgB,M;MADhC,YAAy,U;MACI,4B;MAAhB,OAAGB,cAAhB,C;QAAgB,yB;QAAY,IAAI,cAAJ,EAAI,sBAAJ,YAAe,O;;MAC3C,OAAO,G;K;oFAGX,oB;MACI,IAAI,IAAK,OAAL,KAakB,SAAtB,C;QACI,YAAc,IAAK,O;Q;0EAI3B,wB;MAA+D,OAAA,MAAa,QAAO,GAAP,EAAy,OAAZ,C;K;IS/F5E,mC;MAOI,kBAakB,MAAa,eAAc,SAAd,C;MAC/B,iBAAiB,MAAa,eAAc,IAAd,C;MAC9B,OAAW,gBAAe,UAAAnB,GAA+B,SAA/B,GAAYC,CAAC,S;K;0ECUrD,2B;MAKyE,OAAA,MAAa,gBAAe,IAAf,C;K;4EAYtF,2B;MAKsE,OAAA,MAAa,eAAc,IAAd,C;K;kEAGnF,qB;MACgD,OAAA,MAAa,KAakB,UAAS,GAAT,EAAC,IAAd,C;K;wEACHc,qB;MAAQ,OAAK,SAAY,a;K;0EACxB,qB;MAAQ,OAAK,SAAY,c;K;IC3D5D,0D;MAGI,OAAO,I;K;ICHX,sC;MAMsD,OAAA,SAAY,UAAS,WAAW,KAAX,CAAT,C;K;IjDKIE,uC;Md2nBW,Q;MAAA,IcnnBgB,KdqnBZ,IAAS,CAAT,IcnnBY,KdqnBE,IAAS,wBAA3B,C;QAAA,OAAAsC,UcnnBtB,KdqnBsB,C;;QcnnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Md4nBW,Q;MAAA,IcnnBgB,KdsnBZ,IAAS,CAAT,IcnnBY,KdsnBE,IAAS,0BAA3B,C;QAAA,OAAAsC,UcnnBtB,KdsnBsB,C;;QcnnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Md6nBW,Q;MAAA,IcnnBgB,KdnnBZ,IAAS,CAAT,IcnnBY,KdnnBE,IAAS,0BAA3B,C;QAAA,OAAAsC,UcnnBtB,KdnnBsB,C;;QcnnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Md8nBW,Q;MAAA,IcnnBgB,KdynBZ,IAAS,CAAT,IcnnBY,KdynBE,IAAS,0BAA3B,C;QAAA,OAAAsC,UcnnBtB,KdynBsB,C;;QcnnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Md+nBW,Q;MAAA,IcnnBgB,KdynBZ,IAAS,CAAT,IcnnBY,KdynBE,IAAS,0BAA3B,C;QAAA,OAAAsC,UcnnBtB,KdynBsB,C;;QcnnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MdgoBW,Q;MAAA,Ic1nBgB,Kd0nBZ,IAAS,CAAT,Ic1nBY,Kd0nBE,IAAS,0BAA3B,C;QAAA,OAAAsC,Uc1nBtB,Kd0nBsB,C;;Qc1nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MdioBW,Q;MAAA,Ic3nBgB,Kd2nBZ,IAAS,CAAT,Ic3nBY,Kd2nBE,IAAS,0BAA3B,C;QA

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Y,OAAZ,C;K;;IApB/B,6B;MAII,0C;K;IAqBJ,+C;MAAI,OAAy,kBAAL,SAAK,EAkB,KAAIB,C;K;IAqBhB,0C;
MASI,OAAy,oBAAL,SAAK,C;K;IAehB,0C;MAYI,OAAy,oBAAL,SAAK,C;K;IAkBhB,2C;MAWI,OAAy,cAA
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AY,cAAL,SAAK,EAAC,KAAAd,C;K;IAGhB,4C;MAWI,OAAy,cAAL,SAAK,EAAC,KAAAd,C;K;IAGhB,4C;MAWI,
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C;K;IAGhB,uC;MAOI,OAAy,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAy,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,
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X,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MApJV,MAAK,
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C;MjCqTe,WiC7SY,KjC6SZ,IAAS,C;MAAT,S;QAAC,OiC7SF,KjC6SE,IAqgHT,gBAAR,iBAAQ,C;OArgHT,U;
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;K;II+DX,4B;MAMI,gBAAgB,SAAhB,EAAsB,cAAtB,C;K;IAGJ,2C;MAMI,gBAAgB,SAAhB,EAAsB,UAAtB,C;
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AKZ,Y;MAAQ,oB;K;8DAE9B,oB;MAKI,eAAe,IAAK,S;MACpB,gBAAc,Q;MACd,OAAO,Q;K;wDAGX,Y;MA
A+B,iEAAc,IAAd,C;K;wDAC/B,Y;MAAkC,iEAAc,IAAd,C;K;sDACIC,iB;MAA4C,+DAAY,IAAZ,EAAb,KAA
IB,C;K;;IAIB5C,8E;MAAA,wE;MAAsC,2CAAK,KAAM,IAAX,EAAGB,KAAM,MAAtB,C;MAAtC,Y;K;IAsBJ,+
C;MACsE,6B;K;mEACIE,mB;MAAmD,kCAAc,OAAd,C;K;;yCAIvD,Y;MACI,YAAQ,Q;K;IAOQ,+F;MAAA,sD;
MAAS,6B;K;uFACb,mB;MAAwC,MAAM,qCAA8B,8BAA9B,C;K;mFAC9C,Y;MACI,4BAAwB,Q;K;4FAG5B,
mB;MAAsD,sDAAY,OAAZ,C;K;IAI3C,oH;MAAA,kD;K;4GACH,Y;MAAkC,OAAA,0BAAc,U;K;yGACHD,Y;M
AAyB,OAAA,0BAAc,OAAd,I;K;2GAC9C,Y;MAAwB,0BAAc,S;K;;sFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MA
C5B,6G;K;0FAOJ,mB;MACI,qB;MACA,IAAI,+CAAY,OAAZ,CAAJ,C;QACI,4BAAwB,cAAO,OAAP,C;QACxB
,OAAO,I;OAEX,OAAO,K;K;oIAGY,Y;MAAQ,OAAA,4BAAwB,K;K;4FAEvD,Y;MAAsC,4BAAwB,iB;K;;0FA9
B1E,Y;MACI,IAAI,4BAAJ,C;QACI,6F;OA+BJ,OAAO,mC;K;kDAKf,gB;MAEyB,Q;MADrB,qB;MACqB,OAAA
,IIE8Q2D,QAAQ,W;MkE9QxF,OAAqB,cAArB,C;QAAqB,wB;QAAf,UIEiMsD,U;QkEjMjD,YIE8MiD,Y;QkE7M
xD,iBAAI,GAJJ,EAAS,KAAT,C;;K;IAQc,iG;MAAA,sD;MAAS,oC;K;yFACf,mB;MAAwC,MAAM,qCAA8B,gC
AA9B,C;K;qFAC9C,Y;MAAuB,4BAAwB,Q;K;8FAE/C,mB;MAAsD,wDAAc,OAAd,C;K;IAI3C,sH;MAAA,kD;
K;8GACH,Y;MAAkC,OAAA,0BAAc,U;K;2GACHD,Y;MAAyB,OAAA,0BAAc,OAAO,M;K;6GAC9C,Y;MAAw
B,0BAAc,S;K;;wFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5B,+G;K;sIAOmB,Y;MAAQ,OAAA,4BAAwB,K;K
;sFAEvD,iB;MAEI,IAAI,SAAS,KAAb,C;QAAoB,OAAO,I;MAC3B,IAAI,iCAAJ,C;QAA6B,OAAO,K;MACpC,O
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ACI,qB;MACA,WAAW,YAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACI,YAAY,IAAK,O;QACjB,QAAQ,KAA
M,I;QACd,IAAI,YAAO,CAAP,CAAJ,C;UACI,YAAY,KAAM,M;UACIB,IAAK,S;UACL,OAAO,K;;MAGf,OAA
O,I;K;kDAIX,Y;K;;ICIJ+C,8B;MAAiC,oC;K;0CAEHf,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,

IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,mCAAY,mBAAU,IAAV,EAAgB,KAAhB,C;K;4CAGvB,Y;MAG+B,OAAA,mCAAY,2BAAkB,IAAIB,C;K;;ICbT,0B;MAAuD,8B;MAAIC,4B;MACvD,4BAAkC,K;K;gCAmBlC,Y;MAEL,qB;MACA,4BAAa,I;MACb,OAAO,I;K;qCAGX,Y;K;iDAGA,uB;K;iFAG8B,Y;MAAQ,OAAA,oBAA M,O;K;sCAC5C,iB;MACyC,Q;MAAA,oCAAM,0BAAW,KAAAX,CAAN,4D;K;sCACzC,0B;MAIW,IAAa,I;MAH pB,qB;MACA,0BAAW,KAAAX,C;MAEoB,gBAAb,qBAAM,KAAN,C;MAAqB,qC;MAA5B,OAAO,CAAa,O3D6 BJB,S2D7BI,2D;K;oCAGX,mB;MACI,qB;MACM,oBAAY,MAAK,OAAL,C;MACIB,qC;MACA,OAAO,I;K;sCA GX,0B;MACI,qB;MACM,oBAAY,QAAO,mCAAoB,KAApB,CAAP,EAAmC,CAAnC,EAAc,OAAtC,C;MACIB ,qC;K;yCAGJ,oB;MACI,qB;MACA,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAE/B,uBAAA,oB7DgoDoB,QM3 rD0C,YuD2DrD,QvD3DqD,CN2rD1C,C;M6D/nDpB,qC;MACA,OAAO,I;K;yCAGX,2B;MACI,qB;MACA,mCA AoB,KAApB,C;MAEA,IAAI,UAAS,SAAb,C;QAAmB,OAAO,oBAAO,QAAP,C;MAC1B,IAAI,QAAS,UAAb,C; QAAwB,OAAO,K;MAE3B,IADE,KACF,e;QAAQ,OAAO,oBAAO,QAAP,C;WACf,IAFE,KAEF,O;QAAK,uBvD xEqD,YuDwE7C,QvDxE6C,CN2rD1C,Q6DnnD6B,oB7Dmnd7B,C;;Q6DlnDR,uBAAoC,cAA5B,oBAA4B,EAAV ,CAAU,EAAP,KAAO,CAAY,QvDzEE,YuDyEK,QvDzEL,CuDyEF,EAA4C,cAAN,oBAAM,EAAY,KAAZ,EAA mB,SAAnB,CAA5C,C;;MAG5D,qC;MACA,OAAO,I;K;2CAGX,iB;MACI,qB;MACA,0BAAW,KAAAX,C;MACA, qC;MACA,OAAW,UAAS,sBAAb,GACG,oBAAY,MADf,GAGG,oBAAY,QAAO,KAAP,EAAC,CAAd,CAAIB,C AAmC,CAAnC,C;K;uCAGR,mB;MAEkB,Q;MADd,qB;MACc,2B;MAAd,mD;QACI,IAAI,4BAAM,KAAN,GAA gB,OAAhB,CAAJ,C;UACU,oBAAY,QAAO,KAAP,EAAC,CAAd,C;UACIB,qC;UACA,OAAO,I;;MAGf,OAAO,K ;K;8CAGX,8B;MACI,qB;MACA,qC;MACM,oBAAY,QAAO,SAAP,EAAB,UAAU,SAAV,IAAIB,C;K;gCAGtB, Y;MACI,qB;MACA,uBxBjHuC,E;MwBkHvC,qC;K;wCAIJ,mB;MAA+C,OAAM,QAAN,oBAAM,EAAQ,OAAR, C;K;4CAErD,mB;MAAmD,OAAM,YAAN,oBAAM,EAAY,OAAZ,C;K;mCAEzD,Y;MAA0B,uBAAC,oBAAd,C; K;kCAC1B,Y;MAAsC,OAAA,EAAS,MAAM,MAAK,oBAAL,C;K;yCAGrD,Y;MACI,IAAI,yBAAJ,C;QAAgB,M AAM,oC;K;+CAG1B,iB;MACI,oCAAa,kCAAYB,SAAZB,C;MADoB,Y;K;wDAIrC,iB;MACI,oCAAa,mCAA0B,S AA1B,C;MAD6B,Y;K;;IAjI9C,+B;MAAA,mD;MAG8B,sBxBRa,EwBQb,C;MAH9B,Y;K;IAKA,kD;MAK0B,+B; QAAA,kBAAuB,C;MALjD,mD;MAKsD,sBxBfX,EwBeW,C;MALtD,Y;K;IAOA,2C;MAAA,mD;MAGqD,sBvDj Ba,YuDibr,QvDjBQ,CuDibb,C;MAHrD,Y;K;ICtBJ,0C;MACI,IAAI,6BAAJ,C;QACU,KAAAY,MAAK,UAAL,C;; QAEIB,UAAU,KAAV,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,eAAW,UAAAX,CAA5D,C;;K;IA MiB,kD;MAAA,uB;QAAgB,OAAA,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IAFpD,4C;MACI,IAAI,6BAA J,C;QACI,iBAAiB,gC;QACX,KAAAY,MAAK,UAAL,C;;QAEIB,UAAU,KAAV,EAAwC,CAAxC,EAAiD,cAAN,K AAM,CAAjD,EAA4D,UAA5D,C;;K;IAIR,gE;MACI,IAAI,aAAY,UAAU,CAAV,IAAZ,CAAJ,C;QACI,UAAU,K AAV,EAAwC,SAAXC,EAAmD,UAAU,CAAV,IAAnD,EAAgE,UAAhE,C;Q;IAMiB,gC;MAAgB,OAAE,iBAAF, CAAE,EAU,CAAV,C;K;IAF3C,0B;MACI,IAAI,6BAAJ,C;QACI,iBAAiB,gB;QACX,KAAAY,MAAK,UAAL,C;; QAEIB,UAAU,KAAV,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,cAA5D,C;;K;IAaa,kD;MAAoB, QAAC,IAAM,CAAP,KAAa,IAAM,CAAnB,K;K;IARzC,uC;MACI,sC;QAAiC,OAAjC,yB;OACA,4BAA4B,K;M AE5B,YAAAY,E;MAGZ,iBAAC,CAAd,UAAAsB,GAAAT,U;QAAiC,KAAAY,MAAK,KAAL,C;MAC7C,iBAAiB,kC; MACX,KAAAY,MAAK,UAAL,C;MACIB,mBAAC,CAAd,YAAsB,KAAM,OAA5B,Y;QACI,QAAQ,MAAM,UAA Q,CAAR,IAAN,C;QACR,QAAQ,MAAM,OAAN,C;QACR,IAAI,CAAC,IAAM,CAAP,OAAC,IAAM,CAAPB,KA A0B,KAAK,CAAnC,C;UAAAsC,OAAO,K;;MAEjD,4BAA4B,I;MAC5B,OAAO,I;K;IAIX,2D;MACI,aAAa,gBAA mB,KAAM,OAAzB,O;MACb,aAAa,YAAU,KAAV,EAAiB,MAAjB,EAAYB,KAAzB,EAAgC,YAAhC,EAA8C,U AA9C,C;MACb,IAAI,WAAW,KAAf,C;QACI,aAAU,KAAV,OAAiB,YAAjB,M;UAA+B,MAAM,CAAN,IAAW, OAAO,CAAP,C;Q;IAIID,4D;MAEL,IAAI,UAAS,GAAb,C;QACI,OAAO,K;OAGX,aAAa,CAAC,QAAQ,GAAR,I AAD,IAAgB,CAAhB,I;MACb,WAAW,YAAU,KAAV,EAAiB,MAAjB,EAAYB,KAAzB,EAAgC,MAAhC,EAAw C,UAAxC,C;MACX,YAAAY,YAAU,KAAV,EAAiB,MAAjB,EAAYB,SAAS,CAAT,IAAZB,EAAqC,GAAR,C,EAA0 C,UAA1C,C;MAEZ,aAAiB,SAAS,MAAb,GAAqB,KAArB,GAAgC,M;MAG7C,gBAAgB,K;MACHb,iBAAiB,SA AS,CAAT,I;MACjB,aAAU,KAAV,OAAiB,GAAjB,M;QAEQ,iBAAa,MAAb,IAAuB,cAAc,GAAR,C;UACI,gBA AgB,KAAK,SAAL,C;UACHb,iBAAiB,MAAM,UAAN,C;UAEjB,IAAI,UAAW,SAAQ,SAAR,EAAmB,UAAAnB,C AAX,IAA6C,CAAjD,C;YACI,OAAO,CAAP,IAAY,S;YACZ,6B;;YAEA,OAAO,CAAP,IAAY,U;YACZ,+B;;eAG R,iBAAa,MAAb,C;UACI,OAAO,CAAP,IAAY,KAAK,SAAL,C;UACZ,6B;;UAGA,OAAO,CAAP,IAAY,MAAM, UAAN,C;UACZ,+B;;MAMZ,OAAO,M;K;ICrGX,4C;MAMoB,UACM,M;MAHtB,IAAI,iBAAJ,C;QAAkB,OAA

O,C;MACzB,aAAa,C;MACb,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAEQ,oB;UAAmB,U;;UACnB,Ip
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C;eACnC,wC;YAAmC,2BAAR,OAAQ,C;eACnC,sC;YAAmC,2BAAR,OAAQ,C;eACnC,uC;YAAmC,2BAAR,O
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K;;ICTP,uC;MAAA,2C;K;2DACI,0B;MAA2D,sBAAU,MAAV,C;K;gEAE3D,iB;MAA6C,Q;MAAA,wEAAqB,C;
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Y,Y;MAAQ,OAAA,WAAa,K;K;;8BA8ChD,Y;MACI,0BAAY,Q;K;0CAIhB,e;MAAmD,OAAA,0BAAY,gBAAS,
GAAT,C;K;4CAE/D,iB;MAAmE,gBAAZ,0B;MAAY,c;;Q5DglDnD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAA
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,O4DhIDwD,MAAV,Q5DglD5D,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;M4DjlDgD,iB;K;kFAInD,Y;M
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,QAAS,KAazB,C;MACN,qBAAO,QAAP,C;MALJ,Y;K;IAQA,4D;MASyC,0B;QAAA,aAAoB,G;MAT7D,iD;MA
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AW,G;MAPf,Y;K;IAmCJ,+B;MAKuC,gBAA5B,eAAQ,eAAR,C;MAAoC,6B;MAA3C,OhEPO,S;K;IIEzD6B,uC;
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,O/FkC8B,S+FICR,wB/FkCQ,E+FICW,M/FkCX,C;K;;;I+FnDjG,uC;MAAA,sC;QAAA,qB;OAAA,+B;K;;IA7IA,4
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,C;K;IAEIE,0B;MAG6C,iBAAM,OAAN,EAAe,UAF,C;K;IAWIC,4F;MAAA,kC;MAAA,kC;MAAA,kC;MAAA,
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;UAAA,8C;aAAA,S;UAAA,yC;aAAA,S;UAAA,yC;aAAA,O;UAAA,uC;aAAA,M;UAAA,sC;gBAAA,6D;;K;;IAi
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c,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,EAAE,SA
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AAtB,C;UAA4C,IAAI,CAAI,cAAH,EAAG,EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,8BAAsB,sBAAtB,
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AI,gBAAH,EAAG,EAAc,EAAd,CAAR,C;YAA2B,OAAO,K;eAC9E,oCAAsB,4BAAtB,C;UAA4C,IAAI,CAAI,gBAA
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,OAAO,I;K;IAGX,4C;MAKI,IAAI,iBAAJ,C;QAakB,OAAO,M;MACzB,aAAa,CAAK,eAAL,gBAAK,EAAa,SAA
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,gBAAe,gBAAR,OAAQ,CAAF,C;aAE1B,kBAZE,OAYF,c;UAAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAF,C;aAC
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AnB,C;K;I9JjD,yB;MAAA,6B;K;sCACI,Y;MAAkC,Y;K;0CACIC,Y;MAAsC,Y;K;wCACtC,Y;MAAgC,Q;K;4CA

ChC,Y;MAAoC,S;K;mCACpC,Y;MAA+B,MAAM,6B;K;uCACrC,Y;MAAmC,MAAM,6B;K;;IAN7C,qC;MAAA ,oC;QAAA,mB;OAAA,6B;K;IASA,qB;MAAA,yB;MACI,+C;K;iCAEA,iB;MAA4C,qCAAoB,KAAM,U;K;mCAC tE,Y;MAA+B,Q;K;mCAC/B,Y;MAAkC,W;K;iFAEX,Y;MAAQ,Q;K;kCAC/B,Y;MAAkC,W;K;yCAClC,mB;MA AmD,Y;K;8CACnD,oB;MAAMe,OAAA,QAAS,U;K;sCAE5E,iB;MAAwC,MAAM,8BAA0B,iDAA8C,KAA9C, MAA1B,C;K;wCAC9C,mB;MAA8C,S;K;4CAC9C,mB;MAAkD,S;K;mCAEID,Y;MAA6C,kC;K;uCAC7C,Y;MA AqD,kC;K;+CACrD,iB;MACI,IAAI,UAAAS,CAAb,C;QAAgB,MAAM,8BAA0B,YAAS,KAAnc,C;MACTB,OAAO ,2B;K;0CAGX,8B;MACI,IAAI,cAAa,CAAb,IAAkB,YAAW,CAAjC,C;QAAoC,OAAO,I;MAC3C,MAAM,8BAA 0B,gBAAa,SAAb,mBAAkC,OAA5D,C;K;wCAGV,Y;MAAiC,8B;K;;IA5BrC,iC;MAAA,gC;QAAA,e;OAAA,yB; K;IA+BA,iC;MAA8D,6BAAkB,SAAIB,EAAoC,KAApC,C;K;IAE5B,8C;MAAC,oB;MAA0B,0B;K;yFAClC,Y;M AAQ,OAAA,WAAO,O;K;0CACtC,Y;MAAkC,OAAA,WNUoP3B,YAAQ,C;K;iDMtoPf,mB;MAA6C,OAAO,SAAP,WAAO,EAAS,OAAT,C;K;sDACpD,oB;MAAS,e,c;;Qa8lDtD,Q;QADhB,IAAI,Cb7lDyD,Qa6lDzD,iBb7lDyD,Qa 6lDnC,UAA1B,C;UAAqC,aAAO,I;UAAp,e;SACrB,Ob9lD6C,Qa8lD7C,W;QAAhB,OAAgB,cAAhB,C;UAAgB,y B;UAAM,IAAI,Cb9lDkD,oBa8lDvC,Ob9lDuC,Ca8lDtD,C;YAAyB,aAAO,K;YAAP,e;;QAC/C,aAAO,I;;Mb/lDsD ,iB;K;2CAC7D,Y;MAAuC,OAAO,qBAAP,WAAO,C;K;0CAC9C,Y;MAC+C,gBAAP,W;MAAA,OAAwB,cAAxB ,GcwJpC,SdxJoC,Gc0JpC,SNs4BoB,Q;K;;IR7hC5B,qB;MAIsC,8B;K;IAEtC,4B;MAIqD,OAAI,QAAS,OAAT,GA AgB,CAApB,GAAgC,OAAT,QAAS,CAAhC,GAA8C,W;K;mFAEnG,yB;MAAA,qD;MAAA,mB;QAK0C,kB;O;K ALlC,C;+FAOA,yB;MAAA,+D;MAAA,mB;QAMwD,uB;O;KANxD,C;2FAQA,yB;MAAA,+D;MAAA,mB;QAM oD,uB;O;KANpD,C;IAQA,mC;MAKI,OAAI,QAAS,OAAT,KAAiB,CAArB,GAAwB,gBAAxB,GAAyC,iBAAU,s BAAkB,QAAIB,EAAwC,IAAxC,CAAV,C;K;IAE7C,iC;MAKI,OAAI,QAAS,OAAT,KAAiB,CAArB,GAAwB,gB AAxB,GAAyC,iBAAU,sBAAkB,QAAIB,EAAwC,IAAxC,CAAV,C;K;IAE7C,gC;MAI2D,OAAI,eAAJ,GAAqB,O AAO,OAAP,CAArB,GAA0C,W;K;IAErG,mC;MAImE,OAAAS,cAAT,QAAS,C;K;gFAE5E,yB;MAaA,gE;MAbA,6 B;QAYBI,WAAW,eAduE,IAcvE,C;QUCX,iBAAc,CAAd,UVfkF,IUeIF,U;UVA6B,eAf2D,IAevD,CUCtB,KVDsB, CAAJ,C;;QAFyC,OAGB/D,I;O;KA3BX,C;8FAaA,yB;MAAA,gE;MAAA,6B;QAYI,WAAW,eAAa,IAAb,C;QUCX, iBAAc,CAAd,UVAO,IUAP,U;UVA6B,eAAI,KUCtB,KVDsB,CAAJ,C;;QAC7B,OAAO,I;O;KAdX,C;wFAiBA,yB ;McpGA,+D;MdoGA,gC;Qc/F0B,gBAAf,gB;Qd6GkB,aUzFzB,W;QVYFA,OUxFO,SlrBoC,Q;O;Kd+F/C,C;yFAuB A,yB;McHHA,4E;MAAA,gE;MdmHA,0C;Qc9GI,qBdgIyB,QchIzB,C;QAC8B,gBAAvB,ed+HkB,Qc/HIB,C;Qd+H 4B,aUpHnC,W;QVoHA,OUHnHO,SIZ4C,Q;O;Kd6GvD,C;IAGCl,mC;MAAQ,uBAAG,iBAAO,CAAP,IAAH,C;K;I AQR,qC;MAAQ,OAAA,SAAK,KAAL,GAAY,CAAZ,I;K;4FAEZ,qB;MAK4D,QAAC,mB;K;kGAE7D,qB;MAWI ,OAAO,qBAAgB,SAAK,U;K;sFAGhC,yB;MAAA,qD;MAAA,4B;QAKgE,uCAAQ,W;O;KALxE,C;sFAOA,yB;M AAA,qD;MAAA,4B;QAKoD,uCAAQ,W;O;KAL5D,C;sFAOA,mC;MASI,OAAI,mBAAJ,GAAe,cAAf,GAAmC,S; K;4FAGvC,+B;MAQoH,OAAA,SAAK,qBAAY,QAAC,C;K;IAGZH,uC;MAK+E,kBAAhB,0B;MAAwB,+B;MAA xB,OU1MpD,W;K;IV6MX,yC;MAAkD,QAAM,cAAN,C;aAC9C,C;UAD8C,OACzC,W;aACL,C;UAF8C,OAEzC, OAAO,sBAAK,CAAL,CAAP,C;gBAFyC,OAGtC,S;;K;IAGZ,8D;MAGBkE,yB;QAAA,YAAiB,C;MAAG,uB;QA AA,UAAe,c;MACjG,WAAW,cAAX,EAAiB,SAAjB,EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU ,CAAV,I;MAEX,OAAO,OAAO,IAAd,C;QACI,UAAW,GAAY,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,G AAJ,C;QACb,UAAU,cAAc,MAAd,EAAsB,OAAtB,C;QAEV,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CA AN,I;aACL,IAAI,MAAM,CAAV,C;UACD,OAAO,MAAM,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MA AM,CAAN,IAAF,K;K;IAGX,4E;MAe8E,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC7G,WAAW,cAA X,EAAiB,SAAjB,EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAEX,OAAO,OAAO,IA Ad,C;QACI,UAAW,GAAY,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAJ,C;QACb,UAAU,UAAW,SAAQ ,MAAR,EAAgB,OAAhB,C;QAErB,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI,MAAM, CAAV,C;UACD,OAAO,MAAM,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF,K;K;kG AGX,yB;MAAA,8D;MAAA,4D;MAAsBqC,8D;QAAA,qB;UAAE,qBAAc,iBAAS,EAAT,CAAd,EAA4B,WAA5B, C;S;O;MATvC,+D;QAKBI,yB;UAAA,YAAiB,C;QACjB,uB;UAAA,UAAe,c;QAGf,+BAAa,SAAb,EAAwB,OAA xB,EAAiC,oCAAjC,C;O;KATBJ,C;IA6BA,mE;MAMBoC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC nE,WAAW,cAAX,EAAiB,SAAjB,EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAEX, OAAO,OAAO,IAAd,C;QACI,UAAW,GAAY,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAJ,C;QACb,UA AU,WAAW,MAAX,C;QAEV,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI,MAAM,CAA

V,C;UACD,OAAO,MAAM,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF,K;K;IAGX,8C ;MAMQ,gBAAY,OAAZ,C;QAAuB,MAAM,gCAAyB,gBAAa,SAAb,mCAAKD,OAAID,OAAzB,C;WAC7B,gBA AY,CAAZ,C;QAAiB,MAAM,8BAA0B,gBAAa,SAAb,yBAA1B,C;WACvB,cAAU,IAAV,C;QAAkB,MAAM,8BA A0B,cAAW,OAAZ,gCAA2C,IAA3C,OAA1B,C;K;IAchC,8B;MAEoC,MAAM,wBAAoB,8BAApB,C;K;IAE1C,8 B;MAEoC,MAAM,wBAAoB,8BAApB,C;K;;;wF+F/a1C,yB;M9FgCA,wE;M8FhCA,uC;QAmBW,kB9FqBiD,oB; Q8FM9C,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBA AkB,sBAAY,GAAZ,C;UACIB,W9FqKJ,a8FrKgB,G9FqKhB,E8FnMyC,SA8BIB,CAAU,GAAV,EAAe,WAAf,EA A4B,CAA5B,EAA+B,uBAAuB,CAAC,WAAy,mBAAY,GAAZ,CAAnE,C9FqKvB,C;;Q8FnMA,OAgCO,W;O;K AnDX,C;4FAsBA,6C;MAwBc,Q;MAAA,OAAA,SAAK,iB;MAAf,OAAU,cAAV,C;QAAU,mB;QACN,UAAU,sB AAM,CAAN,C;QACV,kBAAkB,sBAAY,GAAZ,C;QACIB,W9FqKJ,a8FrKgB,G9FqKhB,E8FrKuB,UAAU,GAA V,EAAe,WAAf,EA4B,CAA5B,EAA+B,uBAAuB,CAAC,WAAy,mBAAY,GAAZ,CAAnE,C9FqKvB,C;;M8FnK A,OAAO,W;K;iFAGX,yB;MAAA,gB;MAAA,8B;M9FtBA,wE;M8FsBA,6D;QAnCW,kB9FqBiD,oB;Q8FM9C,Q; QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY, GAAZ,C;UA8BwE,U;UA7B1F,W9FqKJ,a8FrKgB,G9FqKhB,E8FxlkC,UA7BD,GA6BC,EA7BoB,uBAAuB,CAA C,WAAy,mBAAY,GAAZ,CA6BzC,GAAW,qBA7B3B,GA6B2B,EA7BT,CA6BS,CAAX,GAA6C,UA7BxD,WA6 BwD,6DAA5D,EA7BiB,CA6BjB,C9FwIIC,C;;Q8FzIA,OA1BO,W;O;KAGX,C;kFA0BA,yB;MAAA,gB;MAAA,8 B;MAAA,0E;QAIcC,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;U ACV,kBA6DQ,WA7DU,WAAy,GAAZ,C;UA6DuF,U;UAAjG,W9FyGZ,a8FrKgB,G9FqKhB,E8FzGiD,UA5DhB, GA4DgB,EA5DK,uBAAuB,CA4DjE,WA5D8E,mBAAY,GAAZ,CA4D1B,GAAW,qBA5D1C,GA4D0C,EA5DxB, CA4DwB,CAAX,GAA6C,UA5DvE,WA4DuE,6DAA5D,EA5DE,CA4DF,C9FyGjD,C;;Q8F1GA,OACY,W;O;KA 7BhB,C;iFAgCA,yB;MAAA,gB;MAAA,8B;M9FhFA,wE;M8FgFA,qD;QA7FW,kB9FqBiD,oB;Q8FM9C,Q;QAA A,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAA Z,C;UAKFiD,U;UAjFnE,W9FqKJ,a8FrKgB,G9FqKhB,E8FpFgC,UAjFsB,uBAAuB,CAAC,WAAy,mBAAY,GAA Z,CAiFhD,kBAA6B,UAjFjC,WAIFiC,6DAAvC,EAjFmB,CAiFnB,C9FoFhC,C;;Q8FrFA,OA9EO,W;O;KA6DX,C; oFAoBA,yB;MAAA,gB;MAAA,8B;MAAA,kE;QAtFc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;U ACN,UAAU,sBAAM,CAAN,C;UACV,kBA2GQ,WA3GU,WAAy,GAAZ,C;UA2GgE,U;UAA1E,W9F2DZ,a8FrK gB,G9FqKhB,E8F3D+C,UA1GO,uBAAuB,CA0GjE,WA1G8E,mBAAY,GAAZ,CA0GjC,kBAA6B,UA1GhD,WA 0GgD,6DAAvC,EA1GI,CA0GJ,C9F2D/C,C;;Q8F5DA,OACY,W;O;KAvBhB,C;qFA0BA,yB;MAAA,gB;MAAA,8 B;M9F9HA,wE;M8F8HA,uC;QA3IW,kB9FqBiD,oB;Q8FM9C,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAA U,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAAZ,C;UACC,oB;UAKIc,U;UAAjC,IAIId,u BAAuB,CAAC,WAAy,mBAAY,GAAZ,CakItF,C;YADA,mBAjI+C,C;;YAiI/C,mBACkB,UAIIW,GakIX,EAAe, UAIIc,WakID,6DAAf,EAII6B,CakI7B,C;;UAIIIB,W9FqKJ,a8FrKgB,G9FqKhB,mB;;Q8FrCA,OA9HO,W;O;KA 2GX,C;sFAwBA,yB;MAAA,gB;MAAA,8B;MAAA,oD;QAxIc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAA U,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBA6JQ,WA7JU,WAAy,GAAZ,C;UACC,oB;UA8Jc,U;UAAjC,I A9JkD,uBAAuB,CA4JjE,WA5J8E,mBAAY,GAAZ,CA8JtF,C;YADA,mBA7J+C,C;;YA6J/C,mBACkB,UA9JW,G A8JX,EAAe,UA9JC,WA8JD,6DAAf,EA9J6B,CA8J7B,C;;UAFV,W9FSZ,a8FrKgB,G9FqKhB,mB;;Q8FTA,OAA Y,W;O;KAvBhB,C;IA6BA,6C;MArKc,Q;MAAA,OAAK,0B;MAAf,OAAU,cAAV,C;QAAU,mB;QACN,UAAU,s BAAM,CAAN,C;QACV,kBA+KG,WA/Ke,WAAy,GAAZ,C;QA2GgE,U;QAoE/E,W9FTP,a8FrKgB,G9FqKhB,E 8FSmC,CA9KmB,uBAAuB,CA8KtE,WA9KmF,mBAAY,GAAZ,CA0GjC,GAoErC,CAPeQc,GAA6B,UA1GhD, WA0GgD,6DAoEnD,IAAM,CAAN,I9FTnC,C;;M8FSA,OAAO,W;K;IgeNp0B,oC;MAAC,kB;MAAuB,kB;K;;wC AN7D,Y;MAMsC,iB;K;wCANtC,Y;MAM6D,iB;K;0CAN7D,wB;MAAA,wBAMsC,qCANtC,EAM6D,qCAN7D,C ;K;sCAAAY;MAAA,OAMsC,mDANtC,IAM6D,wCAN7D,O;K;sCAAAY;MAAA,c;MAMsC,sD;MAAuB,sD;M AN7D,a;K;oCAAA,iB;MAAA,4IAMsC,sCANtC,IAM6D,sCAN7D,I;K;wF1JEA,yB;MAAA,kC;MAAA,4C;MAA A,kD;QAMuF,wC;O;MANvF,4CAOI,Y;QAAuC,8B;O;MAP3C,8E;MAAA,2B;QAMuF,2C;O;KANvF,C;IACS,2 C;MAAC,wC;K;0CACnC,Y;MAAqD,4BAAiB,wBAAjB,C;K;;IAIzD,yC;MAI4D,OAAI,oCAAJ,GAA2B,SAAK,K AAhC,GAA0C,I;K;IAEtG,uD;MAI0E,OAAI,oCAAJ,GAA2B,SAAK,KAAhC,GAA0C,S;K;IAEpH,uC;MACqD,w BAAO,CAAP,IAAY,mC;K;IAEjE,4D;MAGQ,kBADE,SACF,O;QADJ,OACc,S;WACV,kBAFE,SAEF,c;QAEQ,y CAAwB,MAAO,KAAP,GAAC,CAAT,C;UAJZ,OAIuD,S;;UAJvD,OAK6B,mBAAL,SAAK,CAAT,GAA+B,sBA

A/B,GAAgD,S;;QALpE,OAoy,sB;K;IAGhB,gD;MAGQ,kBADE,SACF,O;QADJ,OACc,S;WACV,kBAFE,SAEF,
c;QAFJ,OAE8B,mBAAL,SAAK,CAAT,GAA+B,sBAA/B,GAAgD,S;;QAFrE,OAGY,sB;K;IAIhB,8B;MAMoB,Q;
MADhB,aAAa,gB;MACG,2B;MAAhB,OAAGB,cAAhB,C;QAAgB,yB;QACL,OAAP,MAAO,EAAO,OAAP,C;;M
AEX,OAAO,M;K;IAGX,4B;MAUiB,Q;MAHb,mBAAmB,mCAAwB,EAAxB,C;MACnB,YAAY,iBAAa,YAAb,C;
MACZ,YAAY,iBAAa,YAAb,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,KAAM,WAAI,IAAK,MAAT,
C;QACN,KAAM,WAAI,IAAK,OAAT,C;;MAEV,OAAO,UAAAS,KAAT,C;K;wFU/EX,qB;MAKqE,gB;K;IAErE,i
C;MAMoE,4BAAiB,SAAjB,C;K;uFAEpE,gC;MAKI,OAAGB,mBAAhB,C;QAAgB,8B;QAAM,UAAU,OAAP,C;;
K;IAMY,oC;MAAC,0B;MACnC,eAAoB,C;K;yCACpB,Y;MAAwC,OAAA,eAAS,U;K;sCACjD,Y;MAA6E,Q;MA
AhC,wBAAa,oBAAmB,mBAAnB,EAAmB,2BAAnB,QAAb,EAA0C,eAAS,OAAnD,C;K;;sFiJ5BjD,yB;MAAA,4
E;MAAA,gB;MAAA,8B;MAAA,+C;QAUiC,Q;QAA7B,OAA6B,wCAAqB,QAAS,aAA9B,0D;O;KAVjC,C;wFAY
A,yB;MAAA,4E;MAAA,gB;MAAA,8B;MAAA,+C;QAWiC,Q;QAA7B,OAA6B,wCAAqB,QAAS,aAA9B,0D;O;
KAXjC,C;sFAaA,+C;MAQI,SAAK,aAAI,QAAS,aAAb,EAAmB,KAAnB,C;K;ICnCT,8C;MAUI,IAAI,wCAAJ,C;
QACI,OAAO,SAAK,4BAAqB,GAArB,C;MAET,4B;MhKkTI,Q;MALX,YAAY,oBgK7Sa,GhK6Sb,C;MACZ,IAA
I,iBAAiB,CAAC,4BgK9SG,GhK8SH,CAAtB,C;QgK9SgC,MAAM,2BAAuB,wCAAvB,C;;QhKkTIC,2BAAO,sE;;
MgKITX,+B;K;IAGJ,8C;MAUQ,kBADE,SACF,kB;QADJ,OACkC,YAAT,SAAK,IAAI,EAA,YAAZ,C;;QADIC,
OAEY,uBAAmB,SAAnB,EAAyB,YAAzB,C;K;IAGhB,gD;MAWQ,kBADE,SACF,yB;QADJ,OACyC,cAAT,SA
K,IAAI,EAA,YAAZ,C;;QADzC,OAEY,8BAA0B,SAAI1B,EAAgC,YAAhC,C;K;;IAC0B,4C;MAAC,wB;MA
AoC,0B;K;qEAApC,Y;MAAA,yB;K;0CACvC,iB;MAA4C,OAAI,OAAL,QAAL,EAAO,KAAP,C;K;4CACHD,Y;M
AA+B,OAAI,SAAJ,QAAL,C;K;4CACnC,Y;MAAkC,OAAA,QAAL,W;K;0FACf,Y;MAAQ,OAAA,QAAL,K;K;2C
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E,OAAA,QAAL,qBAAc,KAAd,C;K;6CACpE,e;MAA+B,OAAA,QAAL,WAAI,GAAJ,C;K;0FACT,Y;MAAQ,OAA
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GhKsP/C,CAAtB,C;QACI,2BgKvPwE,mB;;QhK0PxE,2BAAO,sE;;MgK1PoC,+B;K;;IAGN,mD;MAAC,wB;MAA
2C,0B;K;4EAA3C,Y;MAAA,yB;K;iDAC1C,iB;MAA4C,OAAI,OAAL,QAAL,EAAO,KAAP,C;K;mDACHD,Y;MA
A+B,OAAI,SAAJ,QAAL,C;K;mDACnC,Y;MAAkC,OAAA,QAAL,W;K;iGACf,Y;MAAQ,OAAA,QAAL,K;K;kDA
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,QAAL,K;K;mGACH,Y;MAAQ,OAAA,QAAL,O;K;oGACU,Y;MAAQ,OAAA,QAAL,Q;K;sDAE5E,sB;MAAyC,O
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ACI,2BgKlOwE,mB;;QhKqOxE,2BAAO,sE;;MgKrOoC,+B;K;;IhKvFnD,oB;MAAA,wB;MACI,8C;K;gCAEA,iB;
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B,Y;MAAkC,W;K;2CAEIC,e;MAA+C,Y;K;6CAC/C,iB;MAAsD,Y;K;mCACTd,e;MAAwC,W;K;mFACY,Y;MA
AQ,6B;K;gFAC/B,Y;MAAQ,6B;K;kFACI,Y;MAAQ,8B;K;uCAEjD,Y;MAAiC,6B;K;;IAjBrC,gC;MAAA,+B;QA
AA,c;OAAA,wB;K;IAoBA,oB;MAMuE,Q;MAA7B,OAA6B,uE;K;IAEvE,wB;MAAI,OAAI,KAAM,OAAN,GAAa
,CAAjB,GAA0B,QAAN,KAAM,EAAm,qBAAc,YAAY,KAAM,OAAIB,CAAd,CAAN,CAA1B,GAA6E,U;K;kFA
EjF,yB;MAAA,oD;MAAA,mB;QAO8C,iB;O;KAP9C,C;8FASA,yB;MAAA,wE;MAAA,mB;QAQ4D,2B;O;KAR5
D,C;IAUA,+B;MAYiD,gBAA7C,qBAAoB,YAAY,KAAM,OAAIB,CAApB,C;MAAqD,wB;MAArD,OSJO,S;K;w
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A,yB;MavCA,uE;MbuCA,0C;QalCyC,gBAA9B,mBbsDiB,QatDjB,C;QbsD2B,aSxFIC,W;QTWFA,OSvFO,SiCm
D,Q;O;KbkC9D,C;4FAmCA,qB;MAK+D,QAAC,mB;K;kGAHEh,qB;MAWI,OAAO,qBAAGB,mB;K;sFAG3B,yB;
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,W;K;IAEJ,mC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAA0B,MAAN,KAAM,C;;QAAiC,kBAApB,qB
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D,iC;MAOwB,kBAApB,qBAAc,SAAd,C;MAA4B,+B;MAA5B,OSIkBO,W;K;0FTqkBX,2B;MAKI,sBAAI,IAAK,
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ALT,C;IAQA,qC;MAIU,IAIe,I;MAHjB,kBADE,QACF,c;QAAiB,OAAO,yBAAO,QAAP,C;;QAEpB,aAAsB,K;Q
ACT,0B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,oBAAI,IAAJ,CAAJ,C;YAAe,SAAS,I;;QAC5B,OAAO,M;;
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CAAJ,C;UAAe,SAAS,I;;MAE5B,OAAO,M;K;IAGX,uC;MAII,OAAO,yBAAgB,OAAT,QAAS,CAAhB,C;K;IAG
X,0C;MAIW,iBAAmB,gCAAT,QAAS,EAAGC,SAAhC,C;MAIHG,Q;MAKH7B,OAIH2D,CAA9B,sEAA8B,oBAA
U,UAAV,C;K;IAqH/D,0C;MAII,UAAmB,YAAT,QAAS,C;MACnB,OIKwEwD,CkKxEjD,GIKwEkD,UkKxEID,I
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B,4BAAmB,UAAT,QAAS,CAAnB,C;K;IAGpC,0C;MAIW,iBAAmB,gCAAT,QAAS,EAAGC,SAAhC,C;MA7HG,
Q;MA6H7B,OA7H2D,CAA9B,sEAA8B,oBAAU,UAAV,C;K;IAGl/D,0C;MAII,IxKyIPO,EwKzIPH,QxKihPG,YA
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;;QAEp,OAAO,wB;K;IAGf,kC;MACI,alKiCwD,CAAC,mB;MkKhCzD,iB;MACA,OAAO,M;K;IAIX,2C;MAKkF,
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a,KAAB,C;MxJJgB,kBwJmJX,oB;MACD,OAAO,qBAAP,C;QACI,IAAI,UAAU,kBAAV,6BAAJ,C;UACI,oB;UA
CA,WAAS,I;SAGrB,OAAO,Q;K;oFAIX,4B;MAM6D,kCAAS,KAAT,C;K;IAE7D,gC;MAKiD,IAAI,mBAAJ,C;Q
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Ae,IAAf,GAAYB,2BAAS,CAAT,C;K;IAEjF,+B;MAKgD,IAAI,mBAAJ,C;QAAe,MAAM,2BAAuB,gBAAvB,C;;
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C;K;IAEHf,2C;MAK8E,kCAAc,SAAd,EAAYB,IAAZB,C;K;IAE9E,2C;MAK8E,kCAAc,SAAd,EAAYB,KAABZ,C
;K;IAE9E,wE;MAEgB,UAGS,MAHT,EAcY,MAZ,EAc6B,M;MAfzC,IAAI,uCAAJ,C;QACI,OAAoC,cAA5B,sE
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AAxC,0B;K;oFACH,Y;MAAQ,OAAA,eAAS,K;K;yCACxC,iB;MAAkC,mCAAS,0BAAoB,KAApB,CAAT,C;K;
mCAEIC,Y;MAAuB,eAAS,Q;K;8CACChC,iB;MAAuC,OAAA,eAAS,kBAAS,0BAAoB,KAApB,CAAT,C;K;yCAE
hD,0B;MAA8C,OAAA,eAAS,aAAI,0BAAoB,KAApB,CAAJ,EAAGC,OAAhC,C;K;yCACvD,0B;MACI,eAAS,aA
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B;O;MAT3C,8E;M8JiB2I,qD;QAAA,mB;UAAE,gBAAS,qBAAT,C;S;O;MAH7I,gC;QAGkI,kCAAS,mCAAT,C;O
;KAHII,C;IAKA,2B;MAQI,eAAe,6B;MACf,oBAA0B,+BAAN,KAAM,EAAwC,QAAXC,EAA+D,QAA/D,C;MAC
1B,OAAO,Q;K;8FAGX,yB;MAAA,kD;MAAA,gC;QAGkI,gBAAS,aAAT,C;O;KAHII,C;IAGB0C,yB;K;+CAoBtC,
kC;MAOI,IAAI,uCAA0B,QAAS,UAAvC,C;QAAkD,M;MACID,OAAO,sBAAS,QAAS,WAAIB,e;K;+CAGX,kC;
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5B,sBAAyC,I;MACzC,gBAAoC,I;K;gDAEpC,Y;MACI,OAAO,IAAP,C;QACI,QAAM,YAAN,C;eACI,C;YAAA,
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ACX,gBAAW,I;QACX,InH/FR,oBD+CQ,WoHgDY,kBpHhDZ,CC/CR,C;;K;6CmHmGA,Y;MACU,IASe,I;MATr
B,QAAM,YAAN,C;aACI,C;aAAA,C;UAA5C,OAAO,qB;aAC7C,C;UACI,eAAQ,C;UACR,OAAO,kCAAe,O;aAE
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CI,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;;QAA8B,OAAO,W;K;2DAG/D,Y;MAA4C,QAAM,YAAN,C;aACx
C,C;UADwC,OAC1B,6B;aACd,C;UAFwC,OAExB,6BAAsB,sBAAtB,C;gBAFwB,OAGhC,6BAAsB,uCAAoC,Y
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ACZ,eAAQ,C;MACR,OAA6C,0CAAtC,c;K;IAUsC,+E;MAAA,oB;QACzC,wCAAW,C;QAAX,OACA,yB;O;K;y
DANR,kC;MACI,IAAI,CAAC,QAAS,UAAc,C;QAAYB,M;MACzB,sBAAe,Q;MACf,eAAQ,C;MACR,OAA6C,6
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,C;K;kGAIR,Y;MAAQ,0C;K;;I9J1LhB,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;sFAAA,yB;
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F,2C;O;KARvF,C;IAiBgE,+C;MAAA,mB;QAAE,sB;O;K;IALIE,kC;MAKuD,OAAkB,2CAAT,+BAAS,E;K;IAEz
E,8B;MAK6D,OAAI,QZ6pPtD,YAAQ,CY7pP0C,GAAwB,eAAxB,GAAsD,WAAT,QAAS,C;K;IAEnH,yB;MAG8
C,kC;K;IAE9C,yB;MAAA,6B;K;uCACI,Y;MAA6C,kC;K;2CAC7C,a;MAA4B,kC;K;2CAC5B,a;MAA4B,kC;K;;I
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C;IAGB4F,mH;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wD;MAAA,kC;K;;;kDAAA,Y;;;cACxF,e
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AA,Q;;gBAEA,gB;gCAAA,sCAAS,iCAAT,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;;cAJJ,W;;cAAA,W;;;;
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;QAAa,sB;QACT,KAAM,WAAI,IAAK,MAAT,C;QACN,KAAM,WAAI,IAAK,OAAT,C;;MAEV,OAAO,UAAS,
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;MACrB,gBAAmB,I;K;oEAEnB,Y;MACI,OAAO,aAAS,UAAhB,C;QACI,WAAW,aAAS,O;QACpB,IAAI,wCAA
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SW,Q;MARP,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,IAAI,mBAAa,CAAjB,C;QACI,MAAM,6B;MACV,aAAa,
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,aAAS,U;K;;8CAPxB,Y;MAAuC,4D;K;qDAWvC,oB;MACI,OAAO,uBAA4B,eAA5B,EAAsC,kBAAtC,EAAMd,
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Y,C;K;wEACZ,Y;MAC0C,Q;MAAtC,OAAO,oDAAY,oBAAmB,iBAAnB,EAAMb,yBAAnB,QAAZ,EAAYC,aAA
S,OAAID,C;K;2EAGX,Y;MACI,OAAO,aAAS,U;K;;qDARxB,Y;MAAuC,mE;K;;IAkB3C,oC;MAAY,0B;K;IAC6
C,wE;MACjD,gBA Ae,gCAAS,W;MACxB,aAAY,C;K;6DACZ,Y;MAC2C,Q;MAAvC,OAAO,iBAAa,oBAAmB,i
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U,W;MAC1B,iBAAgB,gCAAU,W;K;4DAC1B,Y;MACI,OAAO,sCAAU,cAAU,OAApB,EAA4B,cAAU,OAAtC,
C;K;+DAGX,Y;MACI,OAAO,cAAU,IAAV,IAAuB,cAAU,U;K;;yCARhD,Y;MAAuC,uD;K;;IAC3C,6D;MACI,0
B;MACA,gC;MACA,0B;K;IAEuC,4E;MAAA,sD;MACnC,gBA Ae,kCAAS,W;MACxB,oBAAiC,I;K;+DAEjC,Y;
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,aAAS,UAA d,C;UACI,OAAO,K;;UAEP,cAAc,aAAS,O;UACvB,uBAAuB,wCAAS,2CAAY,OAAZ,CAAT,C;UA
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zB,0B;MACA,8B;MACA,0B;MC3TA,IAAI,ED+TQ,qBAAc,CC/TtB,CAAJ,C;QACI,cD8T2B,+CAA4C,iB;QC7Tv
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1B,0B;MACA,oB;MC3WA,IAAI,ED+WQ,gBAAS,CC/WjB,CAAJ,C;QACI,cD8WsB,yCAAsC,YAAtC,M;QC7Wt
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CAdxB,mB;MAKI,OAAI,YAAY,mCAAhB,GAAuC,IAAvC,GACI,OAAQ,cAAK,IAAL,EAAW,4BAAX,C;K;;;;
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B;MAAwE,c;K;uDACxE,e;MAA8D,W;K;+CAC9D,Y;MAAsC,Q;K;+CACtC,Y;MAAYC,8B;K;;IAb7C,6C;MAA
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V,WAAW,C;MACX,OAAO,IAAP,C;QACU,uBAAI,OAAJ,GAAL,OAAJ,gC;QAAA,mB;UAAgC,OAAO,I;SAA7
C,MAAM,M;QACN,mB;;K;2CAIR,mB;MACI,+BAAL,OAAQ,IAAZ,GAAoB,OAApB,C;K;8CAEJ,mB;MAQ4B,
Q;MAPxB,UAAU,O;MACV,OAAO,IAAP,C;QACI,IAAI,CAAC,gBAAS,GAAL,UAAb,CAAL,C;UAA4B,OAAO,
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B,iB;MACI,gBAAS,KAAT,KAAB,yCAA4B,KAAM,SAAN,KAAgB,AA5C,IAAsD,KAAM,eAAY,IAAZ,CAA9
E,C;K;yCAEJ,Y;MAA+B,OAAK,SAAL,WAAK,CAAL,GAA0B,SAAR,cAAQ,CAA1B,I;K;IAGZ,uD;MACX,OA
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f,gBAAy,CAAZ,C;MACA,kBAAK,kBAAL,EAAW,oDAAX,C;MnKtFJ,IAAI,EmKuFM,YAAS,CnKvFf,CAAJ,C;
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CpB,kD;MADqB,wB;K;IACrB,gD;MAAA,oD;MACI,4B;K;;;IADJ,4D;MAAA,2D;QAAA,0C;OAAA,oD;K;yDAI
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FC,KxKtFiB,KAAiB,EwKsFS,IxKtFqB,KAA9B,CwKsFC,I7KxHhE,CAAJ,C;QACI,c6KuHgF,+B;Q7KtHhF,MAA
M,gCAAYB,OAAQ,WAAjC,C;Q;I8KnBd,6C;MAOI,iB;MANA,Y;MACA,Y;MACA,Y;MACA,Y;MACA,Y;MAC
A,sB;M9KWA,IAAI,E8KJQ,CAAC,WAAK,QAAL,GAAU,QAAV,GAAe,QAAf,GAAoB,QAArB,MAA2B,C9KIn
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GvB,+C;MACI,IAAI,CAAC,UAAL,C;QAAiB,MAAM,gCAAYB,iCAA8B,IAA9B,iBAAzB,C;K;IC5I3B,gC;MAc
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,YAAQ,MAAR,C;;aACA,YAAQ,UAAU,KAAIb,C;;;UAC0B,iD;UAAO,eAAa,I;UAApB,OtL/J/B,W;;QsLqJc,e;Q
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AU,K;QAC3B,IAAI,sDAA+B,kDAAnC,C;UAAgE,gBAAS,QAAT,C;QACrD,8BAAX,YAAW,C;;MATf,qB;K;0C
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A,gD;MfCA,wB;QAM0D,OeAS,aAAkB,CfwLhD,eAAW,oBAAL,SAAK,CAAL,iBAAN,CexLgD,MAAIB,EfAgB,
KeAc,KAA9B,C;O;KfNnE,C;0FAQA,yB;MD+IA,6B;MC/IA,wB;QAEsD,OAMD,cAAK,IAAK,KAAK,GAAW,C
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7IA,wB;QAEuD,OAGF,cAAK,IAAK,KAAK,GAAW,CCiJ5C,cDpJ8B,KCoJpB,KAAL,GAAiB,KAAtB,CDjJ4C,M
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7B,eAAW,oBAAL,SAAK,CAAL,iBAAN,Ce3K6B,MAAK,KfAI,KeAO,KAAX,CAAhB,C;O;KfFvD,C;4FAIA,yB;
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uJA,kBAS6D,sB;MAT7D,+B;MAvJA,wB;QAEwD,OeAA,eAAW,Cf8J9B,eAAW,oBAAL,SAAK,CAAL,iBAAN,
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;K;iDAEiC,Y;MACI,YAAAY,W;MACZ,IAAI,6BAAS,mBAAT,QAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAA
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;MAAA,+B;MACI,iBAGoC,a;MAEpC,iBAGoC,c;MAEpC,kBAGmC,C;MAEnC,iBAGkC,E;K;;;IANbTc,uC;MAA
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,yB;MAAA,gD;MAAA,wB;QAOmE,oBAaA,IAAK,KAAIB,EAAwB,KAAM,KAA9B,C;O;KAPnE,C;4FASA,yB;
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AAhB,C;O;KAXxD,C;8FAGA,yB;Md0IA,aAS6D,0B;MAT7D,+B;Mc1IA,wB;QAEyD,OAMD,eAAM,IAAK,KA
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A,yB;Mf0JA,kBAS6D,sB;MAT7D,+B;Me1JA,wB;QAEuD,OAGC,eAAM,IAAK,KAAK,UAAY,Cf8J/C,eAAW,o
BejKkB,KfiKvB,KAAK,CAAL,iBAAN,Ce9J+C,MAAZ,CAAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,
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,wB;MAT7D,+B;MgB/HA,wB;QAEwD,OASA,eAAM,IAAK,KAAK,UAAY,ChB6H/C,eAAW,oBgBtlmB,KhBsIx
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N,Cc9H+C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;Mf6IA,kBAS6D,sB;MAT7D,+B;Me7IA,wB;QAEuD,OA
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C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;QAEwD,sBAAM,IAAK,KAAK,UAAM,KAAM,KAAZ,CAAh
B,C;O;KAFxD,C;0FAIA,yB;MhBkHA,WAS6D,wB;MAT7D,+B;MgBzGA,8C;MATA,wB;QAEsD,OASA,YAAY,
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,aAS6D,0B;MAT7D,+B;Mc1GA,8C;MANA,wB;QAEuD,OAMD,YAAY,IAAZ,EdiHjB,eAAW,oBcvHgB,KduHrB
,KAAK,CAAL,YAAN,CcjHiB,C;O;KARtD,C;0FAGA,yB;MfgIA,kBAS6D,sB;MAT7D,+B;Me7HA,8C;MAHA,w
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GA,yB;MAAA,8C;MAAA,wB;QAEsD,mBAAY,IAAZ,EAakB,KAAIB,C;O;KAFtD,C;0FAIA,yB;MhBqGA,WAS
6D,wB;MAT7D,+B;MgB5FA,oD;MATA,wB;QAEsD,OASA,eAAe,IAAf,EhBmGjB,eAAW,oBgB5Ge,KhB4GpB,
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;0FAGA,yB;MfmHA,kBAS6D,sB;MAT7D,+B;MehHA,oD;MAHA,wB;QAEqD,OAGC,eAAe,IAAf,EfuHjB,eAA
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zD,qC;MACI,SvMsHsD,euMtH7C,CvMsH6C,euMtHzC,CvMsHyC,C;MuMrHtD,SvMqHsD,euMrH7C,CvMqH6C
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zE,8B;MACqD,OAAC,gCAAuB,iBAAU,gCAAV,C;K;IAE7E,4B;MACoD,OPoTZ,SAvGI,oBO7MS,EP6Md,KAA
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,OPkTf,SAvGI,oBO3MY,EP2MjB,KAAK,CAAL,iBO3MiB,QP2MZ,oBO3M0B,EP2M/B,KAAK,CAAL,iBO3MiB
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kBAAW,OAAX,CAAX,C;MACV,OAAO,UAAM,aQqSd,aAAkB,CRR9D,UAAM,GAAN,CQQ8D,MAAIB,EAA

1.185 listenablefuture 1.0

1.185.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1258121121_1643033053.9/0/listenablefuture-1-0-sources-
jar/com/google/common/util/concurrent/ListenableFuture.java

1.186 cloning 1.9.0

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Found in path(s):

* /opt/cola/permits/1135840428_1613612967.07/0/cloning-1-9-0-jar/META-INF/maven/uk.com.robust-
it/cloning/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1349353954479

Build-Jdk: 1.7.0_07

Built-By: ariskk

Bundle-Description: The cloning library is a small, open source (Apache
licensed) Java library which deep-clones objects. The objects do not
have to implement the Cloneable interface. Effectively, this library
can clone ANY Java object. It can be used i.e. in cache implementatio
ns, if you don't want the cached object to be modified or whenever you

want to create a deep copy of an object. Sample usage: You can create a single instance of cloner and use it throughout your application. i.e. `Cloner cloner=new Cloner(); ... cloner.deepClone(o);` Please check <http://robust-it.co.uk/clone/> for more examples (spring integration, immutable objects etc)

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0>

Bundle-ManifestVersion: 2

Bundle-Name: cloning

Bundle-SymbolicName: uk.com.robust-it.cloning

Bundle-Version: 1.9.0

Created-By: Apache Maven Bundle Plugin

Export-Package: com.rits.cloning;uses:="org.objenesis";version="1.9.0",com.rits.perspectives;uses:="com.rits.cloning";version="1.9.0"

Import-Package: org.objenesis;version="[1.2,2)"

Tool: Bnd-1.50.0

Found in path(s):

* /opt/cola/permits/1135840428_1613612967.07/0/cloning-1-9-0-jar/META-INF/MANIFEST.MF

1.187 lombok 1.18.16

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1.188 spring-integration-core 5.4.11

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```
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 */
```

Found in path(s):

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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/config/EnablePublisher.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/config/IntegrationConfigurationInitializer.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/config/annotation/BridgeFromAnnotationPostProcessor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/util/CompositeExecutor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/scheduling/PollSkipStrategy.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/expression/SupplierExpression.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/config/IntegrationConverterInitializer.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/config/IntegrationConfigurationBeanFactoryPostProcessor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/expression/ControlBusMethodFilter.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/config/GlobalChannelInterceptorInitializer.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/annotation/InboundChannelAdapter.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/leader/Context.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/config/IntegrationRegistrar.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/channel/interceptor/VetoCapableInterceptor.java
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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/annotation/BridgeTo.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/router/RecipientListRouterManagement.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/util/MessagingAnnotationUtils.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/MessagingGatewayRegistrar.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/annotation/IdempotentReceiver.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/xml/RetryAdviceParser.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/context/CustomConversionServiceFactoryBean.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/GlobalChannelInterceptor.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/IntegrationConverter.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/converter/DefaultDatatypeChannelMessageConverter.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/annotation/BridgeFrom.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/routingslip/RoutingSlipRouteStrategy.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/routingslip/ExpressionEvaluatingRoutingSlipRouteStrategy.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/annotation/Poller.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/store/ChannelMessageStore.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/MessageBuilderFactory.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/IdempotentReceiverAutoProxyCreatorInitializer.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/EnableMessageHistory.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/IntegrationConfigUtils.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/expression/ValueExpression.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/aggregator/MessageGroupExpiredEvent.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/transformer/support/RoutingSlipHeaderValueMessageProcessor.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/metadata/ConcurrentMetadataStore.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/transformer/GenericTransformer.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/store/BasicMessageGroupStore.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/FixedSubscriberChannelBeanFactoryPostProcessor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/leader/Candidate.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/transaction/TransactionSynchronizationFactoryBean.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/DefaultMessageBuilderFactory.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/transaction/IntegrationResourceHolderSynchronization.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/expression/FunctionExpression.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/leader/DefaultCandidate.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/util/FunctionIterator.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/IdempotentReceiverAutoProxyCreator.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/MutableMessageBuilder.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/annotation/GatewayHeader.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/annotation/AnnotationConstants.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/annotation/InboundChannelAdapterAnnotationPostProcessor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/IntegrationComponentScanRegistrar.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/json/ToStringFriendlyJsonNodeToStringConverter.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/EnableIntegration.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/MessageHistoryRegistrar.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/annotation/BridgeToAnnotationPostProcessor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/annotation/IntegrationComponentScan.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/MutableMessageBuilderFactory.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/store/PriorityCapableChannelMessageStore.java

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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/util/IntegrationReactiveUtils.java
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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/json/JacksonPresent.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/json/EmbeddedJsonHeadersMessageMapper.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/handler/ReplyProducingMessageHandlerWrapper.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/FluxMessageChannelSpec.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/gateway/AnnotationGatewayProxyFactoryBean.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/json/SimpleJsonSerializer.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/StaticMessageHeaderAccessor.java
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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/xml/SpelPropertyAccessorsParser.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/util/StackTraceUtils.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/json/JsonPropertyAccessor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/xml/SpelFunctionParser.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/IntegrationMessageHeaderAccessor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/SpelFunctionFactoryBean.java
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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/transformer/support/MessageProcessingHeaderValueMessageProcessor.java
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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/json/JsonPathUtils.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/transformer/support/AbstractHeaderValueMessageProcessor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/gateway/MethodArgsMessageMapper.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-

jar/org/springframework/integration/transformer/support/StaticHeaderValueMessageProcessor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/support/channel/HeaderChannelRegistry.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/config/IntegrationEvaluationContextFactoryBean.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/expression/ExpressionEvalMap.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/gateway/MethodArgsHolder.java
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- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/StringObjectMapBuilder.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/management/metrics/MeterFacade.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/acks/AcknowledgmentCallbackFactory.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/context/IntegrationFlowLifecycleAdvice.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/store/UniqueExpiryCallback.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/management/metrics/SampleFacade.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/management/metrics/CounterFacade.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/util/PoolItemNotAvailableException.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/AbstractEvaluationContextFactoryBean.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/IntegrationSimpleEvaluationContextFactoryBean.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/annotation/EndpointId.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/NullAwarePayloadArgumentResolver.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/util/CloseableIterator.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/ObjectStringMapBuilder.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/management/metrics/MetricsCaptor.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/acks/AckUtils.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/endpoint/MessageSourcePollingTemplate.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/management/metrics/GaugeFacade.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/endpoint/PollingOperations.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/management/metrics/TimerFacade.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/annotation/Disposables.java

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- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/MapBuilder.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/IntegrationComponentSpec.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/graph/CompositeMessageHandlerNode.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/IntegrationFlowBuilder.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/MessageSourceSpec.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/handler/advice/AbstractHandleMessageAdvice.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/graph/ErrorCapableDiscardingMessageHandlerNode.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/context/ExpressionCapable.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/handler/advice/HandleMessageAdvice.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/WireTapSpec.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/endpoint/IntegrationConsumer.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/management/SubscribableChannelManagement.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/handler/LambdaMessageProcessor.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/StringStringMapBuilder.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/transformer/StreamTransformer.java
- * /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/ComponentsRegistration.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/store/MessageHolder.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/IntegrationFlow.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/aggregator/SimpleSequenceSizeReleaseStrategy.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/endpoint/MessageProcessorMessageSource.java

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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/config/xml/StreamTransformerParser.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/MessageChannelSpec.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/handler/GenericHandler.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/MessageProducerSpec.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/store/MessageMetadata.java

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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/support/MessageChannelReference.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/MessageHandlerSpec.java

* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/PublisherIntegrationFlow.java

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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/MessageDecorator.java

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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/graph/LinkNode.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/PropertiesBuilder.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/graph/ErrorCapableCompositeMessageHandlerNode.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/graph/Graph.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/handler/BeanNameMessageProcessor.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/store/MessageGroupFactory.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/graph/ErrorCapableNode.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/handler/DiscardingMessageHandler.java
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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/PollerFactory.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/CorrelationHandlerSpec.java
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jar/org/springframework/integration/support/converter/ConfigurableCompositeMessageConverter.java
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jar/org/springframework/integration/annotation/UseSpellInvoker.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/support/json/ErrorMessageJacksonDeserializer.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/annotation/Default.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/support/DefaultErrorMessageStrategy.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/mapping/BytesMessageMapper.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/transaction/PassThroughTransactionSynchronizationFactory.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/handler/support/CollectionArgumentResolver.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/support/ErrorMessageUtils.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/support/json/AdviceMessageJacksonDeserializer.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/handler/support/MapArgumentResolver.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/support/Utils/PatternMatchUtils.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/handler/support/PayloadsArgumentResolver.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/core/ErrorMessagePublisher.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/channel/ReactiveStreamsSubscribableChannel.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/support/json/MessageJacksonDeserializer.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/handler/support/PayloadExpressionArgumentResolver.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/handler/HeaderPropagationAware.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/support/converter/ObjectStringMessageConverter.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/support/json/GenericMessageJacksonDeserializer.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/leader/event/OnFailedToAcquireMutexEvent.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/support/json/MutableMessageJacksonDeserializer.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/expression/SpelPropertyAccessorRegistrar.java

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jar/org/springframework/integration/support/locks/RenewableLockRegistry.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/dsl/ReactiveMessageHandlerSpec.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/aop/ReceiveMessageAdvice.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/handler/ReactiveMessageHandlerAdapter.java
```


* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/KotlinRouterSpec.kt
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/mapping/ConvertingBytesMessageMapper.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/KotlinSplitterEndpointSpec.kt
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/KotlinFilterEndpointSpec.kt
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/KotlinRecipientListRouterSpec.kt
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/acks/SimpleAcknowledgment.java
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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/dsl/BroadcastPublishSubscribeSpec.java
* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/aop/SimpleActiveIdleReceiveMessageAdvice.java
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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-jar/org/springframework/integration/support/json/MimeTypeSerializer.java

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* /opt/cola/permits/1265673586_1643922104.6/0/spring-integration-core-5-4-11-sources-
jar/org/springframework/integration/config/IdGeneratorConfigurer.java
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1.190 jnr-posix 3.1.2

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1.191 unboundid-ldapsdk-commercial-edition 3.2.1

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ALIGN="LEFT">CONFIDENTIALITY_REQUIRED</TD> * The integer value (13) for the "CONFIDENTIALITY_REQUIRED" result code. public static final int

CONFIDENTIALITY_REQUIRED_INT_VALUE = 13; public static final ResultCode

CONFIDENTIALITY_REQUIRED = new ResultCode(INFO_RC_CONFIDENTIALITY_REQUIRED.get(), CONFIDENTIALITY_REQUIRED_INT_VALUE); case CONFIDENTIALITY_REQUIRED_INT_VALUE: return CONFIDENTIALITY_REQUIRED; CONFIDENTIALITY_REQUIRED,'

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which will permanently delete the target entry even if the server would have otherwise performed a soft delete operation to hide the entry for a period of time before deleting it.

INFO_LDAPMODIFY_ARG_DESCRIPTION_HARD_DELETE("Indicates that all delete requests should include the UnboundID-proprietary 'hard delete' request control, which will permanently delete the target entry even if the server would have otherwise performed a soft delete operation to hide the entry for a period of time before deleting it."), * Indicates that all add requests should include the UnboundID-proprietary 'ignore NO-USER-MODIFICATION' request control to permit setting values for certain operational attributes not normally permitted to be provided by external clients.

INFO_LDAPMODIFY_ARG_DESCRIPTION_IGNORE_NO_USER_MOD("Indicates that all add requests should include the UnboundID-proprietary 'ignore NO-USER-MODIFICATION' request control to permit setting values for certain operational attributes not normally permitted to be provided by external clients."), * Include the UnboundID-proprietary 'name with entryUUID' request control in all add requests sent to the server to indicate that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry instead of the provided RDN. INFO_LDAPMODIFY_ARG_DESCRIPTION_NAME_WITH_ENTRY_UUID("Include the UnboundID-proprietary 'name with entryUUID' request control in all add requests sent to the server to indicate that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry instead of the provided RDN."), * Indicates that all operations should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.

INFO_LDAPMODIFY_ARG_DESCRIPTION_OPERATION_PURPOSE("Indicates that all operations should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation."), * Indicates that all add and modify requests that target either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'password validation details' request control to indicate that the response should include information about the password quality requirements that the server will impose for the target user's password and whether the provided password satisfies each of those constraints.

INFO_LDAPMODIFY_ARG_DESCRIPTION_PASSWORD_VALIDATION_DETAILS("Indicates that all add and modify requests that target either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'password validation details' request control to indicate that the response should include information about the password quality requirements that the server will impose for the target user's password and whether the provided password satisfies each of those constraints."), * Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'purge current password' request control. This will indicate that the server should could purge the current password from the entry (even if it would have otherwise been retired for a brief period of time).

INFO_LDAPMODIFY_ARG_DESCRIPTION_PURGE_CURRENT_PASSWORD("Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'purge current password' request control. This will indicate that the server should could purge the current password from the entry (even if it would have otherwise been retired for a brief period of time)."), * Indicates that all operation requests should include the UnboundID-proprietary 'replication repair' request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication topology.

INFO_LDAPMODIFY_ARG_DESCRIPTION_REPLICATION_REPAIR("Indicates that all operation requests should include the UnboundID-proprietary 'replication repair' request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication topology."), * Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to authenticate with their current password (in addition to the new password) for a brief period of time.

INFO_LDAPMODIFY_ARG_DESCRIPTION_RETIRE_CURRENT_PASSWORD("Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to authenticate with their current password (in addition to the new password) for a brief period of time."), * Indicates that all delete

requests should include the UnboundID-proprietary 'soft delete' request control, which indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with an undelete operation if the delete should be reverted. INFO_LDAPMODIFY_ARG_DESCRIPTION_SOFT_DELETE("Indicates that all delete requests should include the UnboundID-proprietary 'soft delete' request control, which indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with an undelete operation if the delete should be reverted."), * Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.

INFO_LDAPMODIFY_ARG_DESCRIPTION_SUPPRESS_OP_ATTR_UPDATES("Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'."), * Indicates that the tool should include the UnboundID-proprietary 'suppress referential integrity updates' request control in all delete and modify DN operations to indicate that the server should not perform any referential integrity processing for those operations.

INFO_LDAPMODIFY_ARG_DESCRIPTION_SUPPRESS_REFERINT_UPDATES("Indicates that the tool should include the UnboundID-proprietary 'suppress referential integrity updates' request control in all delete and modify DN operations to indicate that the server should not perform any referential integrity processing for those operations."), * Indicates that all search requests should include the UnboundID-proprietary account usable request control to request that each search result entry returned include a response control with information about the password policy usability state for the entry.

INFO_LDAPSEARCH_ARG_DESCRIPTION_ACCOUNT_USABLE("Indicates that all search requests should include the UnboundID-proprietary account usable request control to request that each search result entry returned include a response control with information about the password policy usability state for the entry."), * Indicates that all search requests should include the UnboundID-proprietary 'exclude branch' request control to indicate that matching entries below the specified base DN should be excluded from search results. This argument may be provided multiple times if multiple branches should be excluded.

INFO_LDAPSEARCH_ARG_DESCRIPTION_EXCLUDE_BRANCH("Indicates that all search requests should include the UnboundID-proprietary 'exclude branch' request control to indicate that matching entries below the specified base DN should be excluded from search results. This argument may be provided multiple times if multiple branches should be excluded."), * Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request.

INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_AUTHZ_ENTRY_ATTR("Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request."), * Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes. INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_EFFECTIVE_RIGHTS_ATTR("Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes."), * Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights the specified user has when interacting with each matching entry.

INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_EFFECTIVE_RIGHTS_AUTHZID("Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights the specified user has when interacting with each matching entry."), * Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user. INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_USER_RESOURCE_LIMITS("Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user."), * Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria.

Replication conflict entries are normally excluded from search results.

INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_REPL_CONFLICTS("Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results."), * Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form in the form the entry had before it was deleted).

INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_SOFT_DELETED("Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form in the form the entry had before it was deleted)."), * Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output.

INFO_LDAPSEARCH_ARG_DESCRIPTION_MATCHING_ENTRY_COUNT_CONTROL("Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output."), * Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.

INFO_LDAPSEARCH_ARG_DESCRIPTION_OPERATION_PURPOSE("Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation."), * Indicates that all search requests should include the UnboundID-proprietary 'real attributes only' request control to indicate that the server should not include any virtual attributes in entries that are returned.

INFO_LDAPSEARCH_ARG_DESCRIPTION_REAL_ATTRS_ONLY("Indicates that all search requests should include the UnboundID-proprietary 'real attributes only' request control to indicate that the server should not include any virtual attributes in entries that are returned."), * Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.

INFO_LDAPSEARCH_ARG_DESCRIPTION_SUPPRESS_OP_ATTR_UPDATES("Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.), * Indicates that all search requests should include the UnboundID-proprietary 'virtual attributes only' request control to indicate that the server should only include virtual attributes in entries that are returned.

INFO_LDAPSEARCH_ARG_DESCRIPTION_VIRTUAL_ATTRS_ONLY("Indicates that all search requests should include the UnboundID-proprietary 'virtual attributes only' request control to indicate that the server should only include virtual attributes in entries that are returned.),'

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INFO_SASL_DIGEST_MD5_OPTION_QOP("The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable.),' * The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf'

(for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable. INFO_SASL_GSSAPI_OPTION_QOP("The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable.),'

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1.192 retrofit 2.9.0

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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Body.java

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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/Retrofit.java

* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/RequestBuilder.java

* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/Callback.java

* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/Converter.java

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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/KotlinExtensions.kt

* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/Invocation.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/internal/EverythingIsNonNull.java
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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/HEAD.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/FormUrlEncoded.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/PUT.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Multipart.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Header.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/GET.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Field.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/DELETE.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/QueryName.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Query.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Path.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/POST.java
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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/HTTP.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Headers.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/PATCH.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Part.java
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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/OkHttpCall.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/BuiltInConverters.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/Response.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/OPTIONS.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/HttpServiceMethod.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/Call.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/DefaultCallAdapterFactory.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/ParameterHandler.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/ServiceMethod.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/RequestFactory.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/CallAdapter.java
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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/SkipCallbackExecutor.java
* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Tag.java
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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/HeaderMap.java

* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/HttpException.java

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* /opt/ws_local/PERMITS_SQL/1083957721_1598378129.06/0/retrofit-2-9-0-sources-jar/retrofit2/http/Streaming.java

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1.193 snake-yaml 1.27

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1.194 asm 7.1

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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/FieldVisitor.java
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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/SymbolTable.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Symbol.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Constants.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/MethodTooLargeException.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ConstantDynamic.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassTooLargeException.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Opcodes.java

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- * /opt/cola/permits/1135892428_1613626883.3/asm-7-1-sources-6-jar/org/objectweb/asm/package.html
- * /opt/cola/permits/1135892428_1613626883.3/asm-7-1-sources-6-jar/org/objectweb/asm/signature/package.html

1.195 jandex 2.2.3.Final

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1.197 spring-security-crypto 5.4.9

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```
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/keygen/KeyGenerators.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/password/PasswordEncoder.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
```

```
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/encrypt/CipherUtils.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/encrypt/BouncyCastleAesBytesEncryptor.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/util/EncodingUtils.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
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```
*/
```

```
/**
```

```
* Base64 encoder which is a reduced version of Robert Harder's public domain
```

```
* implementation (version 2.3.7). See http://iharder.sourceforge.net/current/java/base64/
```

```
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* for more information.
* <p>
* For internal use only.
*
* @author Luke Taylor
* @since 3.0
* @deprecated Use java.util.Base64
*/

Found in path(s):

* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-jar/org/springframework/security/crypto/codec/Base64.java

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* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-jar/org/springframework/security/crypto/scrypt/SCryptPasswordEncoder.java

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jar/org/springframework/security/crypto/password/Digester.java
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jar/org/springframework/security/crypto/codec/Hex.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/codec/Utf8.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/codec/package-info.java
* /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-
jar/org/springframework/security/crypto/password/AbstractPasswordEncoder.java
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- * /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-jar/org/springframework/security/crypto/password/Md4.java

- * /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-jar/org/springframework/security/crypto/password/PasswordEncoderUtils.java

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- * /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-jar/org/springframework/security/crypto/password/MessageDigestPasswordEncoder.java
 - * /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-jar/org/springframework/security/crypto/password/Md4PasswordEncoder.java
 - * /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-jar/org/springframework/security/crypto/keygen/Base64StringKeyGenerator.java
 - * /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-jar/org/springframework/security/crypto/password/Pbkdf2PasswordEncoder.java
 - * /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-jar/org/springframework/security/crypto/password/DelegatingPasswordEncoder.java
 - * /opt/cola/permits/1239873012_1639093473.79/0/spring-security-crypto-5-4-9-sources-jar/org/springframework/security/crypto/password/LdapShaPasswordEncoder.java
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- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/ConsumerTagStrategy.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/AmqpTimeoutException.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/ConditionalExceptionHandler.java

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- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/converter/DefaultClassMapper.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/remoting/client/AmqpClientInterceptor.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/AmqpException.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/converter/ClassMapper.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/remoting/client/AmqpProxyFactoryBean.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/core/CustomExchange.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/converter/MarshallingMessageConverter.java
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- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/core/BindingBuilder.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/core/AmqpAdmin.java
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- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/converter/AbstractJavaTypeMapper.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/core/AbstractExchange.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/core/TopicExchange.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/converter/MessageConversionException.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/AmqpUnsupportedEncodingException.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/core/HeadersExchange.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/converter/SimpleMessageConverter.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-

jar/org/springframework/amqp/core/MessageProperties.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/core/AmqpTemplate.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/core/DirectExchange.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/UncategorizedAmqpException.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/core/FanoutExchange.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/core/AbstractDeclarable.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/core/ExchangeTypes.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/AmqpIllegalStateException.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/AmqpConnectException.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/support/converter/AbstractMessageConverter.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/core/MessageListener.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/remoting/service/AmqpInvokerServiceExporter.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/core/MessageDeliveryMode.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/core/AcknowledgeMode.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/support/converter/Jackson2JavaTypeMapper.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/support/AmqpHeaderMapper.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/core/Binding.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/support/converter/MessageConverter.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/support/converter/Jackson2JsonMessageConverter.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/support/converter/SerializerMessageConverter.java
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jar/org/springframework/amqp/core/Message.java
* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-
jar/org/springframework/amqp/core/AnonymousQueue.java
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- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/core/MessageBuilder.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/postprocessor/MessagePostProcessorUtils.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/postprocessor/UnzipPostProcessor.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/postprocessor/ZipPostProcessor.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/postprocessor/GUnzipPostProcessor.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/core/MessagePropertiesBuilder.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/core/ReceiveAndReplyCallback.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/postprocessor/AbstractDeflaterPostProcessor.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/AmqpMessageHeaderAccessor.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/core/MessageBuilderSupport.java
- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/support/postprocessor/GZipPostProcessor.java

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jar/org/springframework/amqp/support/postprocessor/AbstractCompressingPostProcessor.java
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* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/ImmediateRequeueAmqpException.java
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* /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/AmqpResourceNotAvailableException.java
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/**

* Special exception for listener implementations that want to signal that the current
* batch of messages should be acknowledged immediately (i.e. as soon as possible) without

```
* rollback, and without consuming any more messages within the current transaction.
*
* @author Dave Syer
* @author Gary Russell
*
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```

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jar/org/springframework/amqp/AmqpAuthenticationException.java
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- * /opt/cola/permits/1220178442_1635319266.83/0/spring-amqp-2-3-11-sources-jar/org/springframework/amqp/utils/MapBuilder.java
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jar/org/springframework/amqp/core/QueueInformation.java
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1.203 aalto-xml 1.0.0

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1.204 avro-guava-dependencies 1.8.2

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1.205 javax-inject 1

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Found in path(s):

* /opt/cola/permits/1265673594_1643932609.1/0/netty-handler-proxy-4-1-69-final-sources-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

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* /opt/cola/permits/1265673594_1643932609.1/0/netty-handler-proxy-4-1-69-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/cola/permits/1265673594_1643932609.1/0/netty-handler-proxy-4-1-69-final-sources-jar/io/netty/handler/proxy/package-info.java
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* /opt/cola/permits/1265673594_1643932609.1/0/netty-handler-proxy-4-1-69-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java

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1.210 jetty-http 9.4.44.v20210927

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- * org.eclipse.jetty.orbit:javax.security.auth.message

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- * org.eclipse.jetty.orbit:javax.mail.glassfish

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- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
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The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by

Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
modified April 2001 by Iris Van den Broeke, Daniel Deville.
Permission to use, copy, modify and distribute UnixCrypt
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1.211 netty-codec-stomp 4.1.69.Final

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* /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/META-
INF/maven/io.netty/netty-codec-stomp/pom.xml

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- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/DefaultLastStompContentSubframe.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/StompCommand.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/StompContentSubframe.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompFrame.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompHeadersSubframe.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/StompConstants.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/StompSubframeDecoder.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/StompFrame.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/StompHeadersSubframe.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/StompSubframeEncoder.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompContentSubframe.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/StompSubframe.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/package-info.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/StompSubframeAggregator.java
- * /opt/cola/permits/1235364915_1638382300.86/0/netty-codec-stomp-4-1-69-final-sources-jar/io/netty/handler/codec/stomp/StompHeaders.java

1.212 swagger 1.5.21

1.213 netty-transport-sctp 4.1.69.Final

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* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/oio/OioSctpServerChannel.java

* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java

* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/package-info.java

* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/oio/OioSctpChannel.java

* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/nio/package-info.java

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* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-
jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-
jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-
jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-
jar/io/netty/handler/codec/sctp/package-info.java
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* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-
jar/io/netty/channel/sctp/SctpChannelConfig.java
```

* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/SctpChannel.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/MessageInfo.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/SctpChannel.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/HandlerResult.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/UnsupportedOperationException.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/AbstractNotificationHandler.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/NotificationHandler.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/SctpStandardSocketOptions.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/PeerAddressChangeNotification.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/AssociationChangeNotification.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/Notification.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/package-info.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/SctpMessage.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/SctpServerChannel.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io/netty/channel/sctp/SctpServerChannel.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/ShutdownNotification.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/Association.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/SendFailedNotification.java
* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/com/sun/nio/sctp/SctpSocketOption.java

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* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/META-INF/maven/io.netty/netty-transport-sctp/pom.xml

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* /opt/cola/permits/1235364901_1638382290.23/0/netty-transport-sctp-4-1-69-final-sources-jar/io.netty/channel/sctp/DefaultSctpServerChannelConfig.java

1.214 spring-tx 5.3.12

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* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/support/ResourceTransactionDefinition.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/connection/ConnectionFactoryUtils.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/support/LocalConnectionFactoryBean.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/CannotCreateRecordException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/support/SimpleTransactionStatus.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/CannotGetCciConnectionException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/support/TransactionTemplate.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/core/CciTemplate.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/core/support/CciDaoSupport.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
```

* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/InvalidTimeoutException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/core/RecordExtractor.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/CciOperationNotSupportedException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/jta/JtaTransactionManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/context/SpringContextResourceAdapter.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/Isolation.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/core/InteractionCallback.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/jta/JtaTransactionObject.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/work/SimpleTaskWorkManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/support/ResourceHolderSupport.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/object/MappingRecordOperation.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/connection/ConnectionHolder.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/HeuristicCompletionException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/core/ConnectionCallback.java

* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/context/BootstrapContextAware.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/dao/support/DaoSupport.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
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* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/SavepointManager.java
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* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/TransactionalProxy.java
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* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/dao/support/PersistenceExceptionTranslator.java

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* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/TransientDataAccessResourceException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/jta/TransactionFactory.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/InvalidResultSetAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/CannotAcquireLockException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/DeadlockLoserDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/DataIntegrityViolationException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/IllegalTransactionStateException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/interceptor/NoRollbackRuleAttribute.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/PessimisticLockingFailureException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
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jar/org/springframework/dao/PermissionDeniedDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/InvalidIsolationLevelException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/CleanupFailureDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/support/ResourceTransactionManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/CannotSerializeTransactionException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/InvalidDataAccessApiUsageException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/RecoverableDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/TransactionTimedOutException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/TransactionUsageException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/DuplicateKeyException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/NoTransactionException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/QueryTimeoutException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/EmptyResultDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/TypeMismatchDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/UnexpectedRollbackException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/TransactionException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/work/DelegatingWork.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/CannotCreateTransactionException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-

jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java
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jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-

jar/org/springframework/jca/support/SimpleBootstrapContext.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/core/CciOperations.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/TransientDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/TransactionSystemException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/NonTransientDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/OptimisticLockingFailureException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/DataRetrievalFailureException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/NonTransientDataAccessResourceException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/DataAccessResourceFailureException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/object/EisOperation.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/UncategorizedDataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/DataAccessException.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/dao/ConcurrencyFailureException.java
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- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/event/TransactionalApplicationListenerSynchronization.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/support/SimpleTransactionScope.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/PlatformTransactionManager.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/support/TransactionSynchronization.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/event/TransactionalApplicationListenerAdapter.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/work/WorkManagerTaskExecutor.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/connection/TransactionAwareConnectionFactoryProxy.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
- * /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java

* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/dao/support/DataAccessUtils.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/event/TransactionalEventListenerFactory.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/jca/cci/connection/SingleConnectionFactory.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/ReactiveTransactionManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/reactive/TransactionalOperator.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/reactive/TransactionSynchronizationUtils.java

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* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/event/TransactionalEventListener.java

* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-

jar/org/springframework/transaction/event/TransactionalApplicationListenerMethodAdapter.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/reactive/TransactionContext.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/support/TransactionCallback.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/event/TransactionPhase.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/reactive/TransactionContextManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/annotation/Transactional.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/reactive/TransactionCallback.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/reactive/TransactionSynchronizationManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/reactive/AbstractReactiveTransactionManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/event/TransactionalApplicationListener.java
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* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/reactive/GenericReactiveTransaction.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/reactive/TransactionContextHolder.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/support/DefaultTransactionStatus.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/support/WithoutTransactionOperations.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/reactive/TransactionalOperatorImpl.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/TransactionDefinition.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/TransactionAttribute.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/Propagation.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/reactive/TransactionSynchronization.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/TransactionStatus.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/ReactiveTransaction.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/TransactionManager.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-jar/org/springframework/transaction/support/TransactionOperations.java


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* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/StaticTransactionDefinition.java
* /opt/cola/permits/1220178478_1635319486.01/0/spring-tx-5-3-12-sources-
jar/org/springframework/transaction/TransactionExecution.java
```

1.215 jakarta-validation-api 2.0.2

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```
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* Jakarta Bean Validation API
*
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```

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Validator.java
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jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintTarget.java
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jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/groups/Default.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/MessageInterpolator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/Unwrapping.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraintvalidation/ValidationTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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jar/javax/validation/package-info.java
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jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/BeanDescriptor.java
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jar/javax/validation/constraints/Digits.java
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jar/javax/validation/valueextraction/UnwrapByDefault.java
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jar/javax/validation/ConstraintDefinitionException.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/groups/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ElementKind.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/GroupConversionDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ExtractedValue.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/bootstrap/GenericBootstrap.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/MethodType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ConstructorDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraintvalidation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/AssertTrue.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Path.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/BootstrapConfiguration.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ElementDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ContainerElementTypeDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/GroupDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Min.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/groups/ConvertGroup.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Max.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ReportAsSingleViolation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ReturnValueDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ParameterNameProvider.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/NoProviderFoundException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Validation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NotBlank.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-

jar/javax/validation/Configuration.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Size.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/PastOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintViolationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/bootstrap/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/TraversableResolver.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/ExecutableValidator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ValidationProviderResolver.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ValidatorFactory.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ContainerDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ConstraintDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/GroupSequence.java
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jar/javax/validation/constraints/Negative.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidatorFactory.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ValidationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/OverridesAttribute.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/spi/BootstrapState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Email.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintDeclarationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/PropertyDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-

jar/javax/validation/ConstraintValidator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertFalse.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Future.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java
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~ Jakarta Bean Validation API

~

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Comments to: bean-validation-dev@eclipse.org.

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

1.216 spring-aop 5.3.12

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- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/support/AbstractPointcutAdvisor.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/config/AspectComponentDefinition.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/Advisor.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
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- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/support/ExpressionPointcut.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/autoprox/InfrastructureAdvisorAutoProxyCreator.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java

* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/aopalliance/intercept/Invocation.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/ProxyFactory.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/support/annotation/AnnotationMatchingPointcut.java
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/ClassFilter.java
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- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/Pointcut.java
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- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/adapter/ThrowsAdviceAdapter.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/adapter/AdvisorAdapter.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/config/PointcutComponentDefinition.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/PointcutAdvisor.java
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- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/aspectj/AspectJAopUtils.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/scope/ScopedObject.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/target/SimpleBeanTargetSource.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/target/LazyInitTargetSource.java
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jar/org/springframework/aop/IntroductionAdvisor.java
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/target/PoolingConfig.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
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jar/org/springframework/aop/DynamicIntroductionAdvice.java
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jar/org/springframework/aop/framework/ProxyConfig.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java

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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/AopProxyUtils.java
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jar/org/springframework/aop/SpringProxy.java
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jar/org/springframework/aop/framework/AopInfrastructureBean.java
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```

Found in path(s):

* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/aspectj/AspectJWeaverMessageHandler.java
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/adaptor/ThrowsAdviceInterceptor.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-

jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/config/AopNamespaceHandler.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/config/PointcutEntry.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/config/AdvisorEntry.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/interceptor/SimpleTraceInterceptor.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/config/AdviceEntry.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/AdvisedSupport.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/adapter/AfterReturningAdviceInterceptor.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-

jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/AopContext.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/Advised.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/interceptor/DebugInterceptor.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
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jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
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- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/TargetSource.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/support/DynamicMethodMatcher.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/target/EmptyTargetSource.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/support/IntroductionInfoSupport.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/springframework/aop/target/HotSwappableTargetSource.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-jar/org/aopalliance/intercept/ConstructorInvocation.java
- * /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-

jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/TrueMethodMatcher.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/target/SingletonTargetSource.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/target/CommonsPool2TargetSource.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-

jar/org/aopalliance/aop/AspectException.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
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* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java
* /opt/cola/permits/1220178487_1635318387.81/0/spring-aop-5-3-12-sources-
jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java

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1.218 scala 2.13.1

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly deconstructed in method or function parameters.

Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `{ case (a, b) => ... }`
val x: ((Int, Int) => Int) = (((a, b)) => a)
^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }`
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }`
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^

three errors found

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 - * [license/LICENSE.mvn-wrapper.txt](#) (Apache License 2.0)
- * HOMEPAGE:
 - * <https://github.com/takari/maven-wrapper>

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- * LICENSE:
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- * HOMEPAGE:
 - * <https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h>

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* HOMEPAGE:

* <https://github.com/hyperxpro/Brotli4j>

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1.221 okhttp 3.14.9

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1.222 txw2 2.3.5

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- * License: Pending
- * Project: <https://maven.apache.org/wagon/>
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1.223 rxtx 2.1.7

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That's all there is to it!

1.224 antlr 3.5.2

1.224.1 Available under license :

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1.225 spring-data-commons 2.4.14

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1.226 jackson-xc 2.13.0

1.226.1 Available under license :

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1.227 spring-context 5.3.12

1.227.1 Available under license :

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```

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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/

```

Found in path(s):

```

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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*/

```

Found in path(s):

```

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/remoting/RemoteConnectFailureException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/scheduling/Trigger.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/ui/context/ThemeSource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-

```

jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/JmxException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jndi/JndiLookupFailureException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/event/ContextClosedEvent.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/remoting/rmi/RmiBasedExporter.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/ejb/config/LocalStatelessSessionBeanDefinitionParser.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/export/ assembler/MBeanInfoAssembler.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/access/InvocationFailureException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/export/MBeanExportException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/event/ContextStartedEvent.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/remoting/soap/SoapFaultException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/export/ assembler/AutodetectCapableMBeanInfoAssembler.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/scripting/ScriptSource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/format/number/AbstractNumberFormatter.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/scheduling/SchedulingAwareRunnable.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/event/ContextRefreshedEvent.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-

jar/org/springframework/context/event/ContextStoppedEvent.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/remoting/RemoteInvocationFailureException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/config/SpringConfiguredBeanDefinitionParser.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/ejb/access/EjbAccessException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/ui/context/support/UiApplicationContextUtils.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/remoting/rmi/CodebaseAwareObjectInputStream.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/validation/BindingErrorProcessor.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/event/ApplicationContextEvent.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/ui/context/Theme.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/ApplicationContextException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/NoSuchMessageException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/config/ContextNamespaceHandler.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/ApplicationContextAware.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/Phased.java

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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/FilterType.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/joda/LocalTimeParser.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/i18n/LocaleContext.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/joda/DateTimeParser.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/Lazy.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/MessageSourceResourceBundle.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/Description.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/joda/LocalDateParser.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java

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```

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*/
/**
* Indicates that a component is only eligible for registration when all
* { @linkplain #value specified conditions } match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see { @link Condition } for details).
*
* <p>The { @code @Conditional } annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* { @code @Component }, including { @link Configuration @Configuration } classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any { @link Bean @Bean } method</li>
* </ul>
*
* <p>If a { @code @Configuration } class is marked with { @code @Conditional },
* all of the { @code @Bean } methods, { @link Import @Import } annotations, and
* { @link ComponentScan @ComponentScan } annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of { @code @Conditional } annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* { @code @Conditional } itself is not declared as
* { @link java.lang.annotation.Inherited @Inherited }; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* { @code @Conditional } must not be declared as { @code @Inherited }.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

```

Found in path(s):

```

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/annotation/Conditional.java

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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/ui/ModelExtensions.kt

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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/concurrent/ReschedulingRunnable.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/ApplicationStartupAware.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/validation/BindException.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/ComponentScan.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/EventPublicationInterceptor.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/LiveBeansViewMBean.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-

jar/org/springframework/context/ApplicationContextInitializer.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/cache/support/NoOpCache.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
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jar/org/springframework/validation/AbstractErrors.java
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jndi/JndiObjectFactoryBean.java
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/ConfigurableApplicationContext.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/cache/support/SimpleCacheManager.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-

jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
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jar/org/springframework/validation/AbstractBindingResult.java
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/annotation/Condition.java
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/instrument/classloading/websphere/WebSphereClassPreDefinePlugin.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/validation/MessageCodeFormatter.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-

jar/org/springframework/context/annotation/DeferredImportSelector.java
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jar/org/springframework/scheduling/TaskScheduler.java
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/annotation/ContextAnnotationAutowireCandidateResolver.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/format/support/DefaultFormattingConversionService.java
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jar/org/springframework/validation/SmartValidator.java
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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/ImportResource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
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- * /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
- * /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
- * /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/jndi/TypeMismatchNamingException.java
- * /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/stereotype/Controller.java
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- * /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/remoting/support/RemoteExporter.java
- * /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/jmx/support/NotificationListenerHolder.java
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jar/org/springframework/cache/support/NullValue.java
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jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java

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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/jmx/export/metadata/ManagedOperation.java

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Found in path(s):

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/support/CronExpression.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/ConfigurationClass.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/GenericGroovyApplicationContext.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/ApplicationListener.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/CachePutOperation.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/LiveBeansView.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/standard/DateTimeContext.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/MessageSourceSupport.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskScheduler.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/standard/Jsr310DateTimeFormatAnnotationFormatterFactory.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/validation/Validator.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/EventListener.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/BeanDefinitionDsl.kt

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/expression/StandardBeanExpressionResolver.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/Configuration.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/ContextTypeMatchClassLoader.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/support/CompositeCronField.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/support/QuartzCronField.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/annotation/DateTimeFormat.java

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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/ResourceLoaderAware.java

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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/ApplicationEvent.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/ApplicationEventMulticaster.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/validation/support/BindingAwareModelMap.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/CacheOperation.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/annotation/ScheduledAnnotationBeanPostProcessor.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/SmartApplicationListener.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/support/BitsCronField.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterFactory.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/annotation/SchedulingConfigurer.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/FormatterRegistrar.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/validation/beanvalidation/LocalValidatorFactoryBean.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/annotation/Cacheable.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/ConfigurationClassUtils.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/support/CronTrigger.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/CacheableOperation.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/annotation/Scheduled.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/config/CronTask.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/support/CronField.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/CacheEvictOperation.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/SourceFilteringListener.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/jndi/JndiCallback.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/DateFormatter.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/validation/annotation/ValidationAnnotationUtils.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/BeanMethod.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/index/CandidateComponentsIndexLoader.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/ConfigurationClassPostProcessor.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/annotation/EnableScheduling.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/GenericApplicationListener.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/DateTimeFormatAnnotationFormatterFactory.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/ConfigurationMethod.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/ui/ConcurrentModel.java

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*/opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
*/opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/ApplicationEventPublisherAware.java
*/opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
*/opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/context/annotation/ImportAware.java
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```
*/opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/ui/Model.java
*/opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/scheduling/support/TaskUtils.java
```

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/annotation/CacheAnnotationParser.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/ui/ModelMap.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/event/EventExpressionEvaluator.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/Import.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/CacheOperationSource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/validation/ObjectError.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/GenericApplicationContextExtensions.kt
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/StaticApplicationContext.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/SmartLifecycle.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/annotation/SpringCacheAnnotationParser.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/CacheManager.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/ClassPathBeanDefinitionScanner.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/datetime/standard/InstantFormatter.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/annotation/Async.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/ParserStrategyUtils.java

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/jndi/JndiTemplateEditor.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/support/AbstractCacheManager.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/Cache.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/MessageSource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scripting/support/StandardScriptFactory.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/annotation/AnnotationCacheOperationSource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/StaticMessageSource.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/ApplicationEventPublisher.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/support/AbstractMessageSource.java

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* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/ApplicationContext.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/cache/interceptor/BasicOperation.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/validation/annotation/Validated.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/format/AnnotationFormatterFactory.java
* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-jar/org/springframework/context/annotation/PropertySources.java
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/**

* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}

* reference through WebSphere's proprietary {@code AdminServiceFactory} API,

* available on WebSphere 5.1 and higher.

*

* <p>Exposes the {@code MBeanServer} for bean references.

*

* <p>This {@code FactoryBean} is a direct alternative to {@link MBeanServerFactoryBean},

```

* which uses standard JMX 1.2 API to access the platform's { @link MBeanServer }.
*
* <p>See the javadocs for WebSphere's
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
/com/ibm/websphere/management/AdminServiceFactory.html">{ @code AdminServiceFactory }</a>
* and
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
/com/ibm/websphere/management/MBeanFactory.html">{ @code MBeanFactory }</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

```

Found in path(s):

```

* /opt/cola/permits/1220178469_1635319037.6/0/spring-context-5-3-12-sources-
jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

```

1.228 jacoco-agent 0.8.5

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1.229 jaxb-runtime 2.3.0

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* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheResponse.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheOpcodes.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/MemcacheObject.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/MemcacheContent.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/DefaultLastMemcacheContent.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheClientCodec.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/MemcacheMessage.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheMessage.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheResponse.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectAggregator.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/DefaultMemcacheContent.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/FullMemcacheMessage.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/package-info.java

* /opt/cola/permits/1235364855_1638382310.0/0/netty-codec-memcache-4-1-69-final-sources-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.java

1.237 jaxb-core 2.3.0

1.238 spring-integration-kafka 5.4.11

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- * /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/inbound/KafkaInboundGateway.java
- * /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/inbound/KafkaMessageSource.java
- * /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/dsl/KafkaTemplateSpec.java
- * /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/dsl/KafkaMessageListenerContainerSpec.java
- * /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/dsl/KafkaInboundGatewaySpec.java
- * /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/dsl/KafkaInboundChannelAdapterSpec.java

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- * /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/support/KafkaSendFailureException.java

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* /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/channel/PublishSubscribeKafkaChannel.java
* /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/dsl/KafkaPointToPointChannelSpec.java
* /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/dsl/AbstractKafkaChannelSpec.java
* /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/dsl/KafkaPublishSubscribeChannelSpec.java
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* /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/config/xml/KafkaChannelParser.java
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* /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/config/xml/KafkaOutboundGatewayParser.java
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* /opt/cola/permits/1265673578_1643922079.36/0/spring-integration-kafka-5-4-11-sources-jar/org/springframework/integration/kafka/dsl/KafkaMessageDrivenChannelAdapterSpec.java
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1.239 lettuce-core 6.1.2.RELEASE

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1.240 java-driver-shaded-guava 25.1-jre-graal-sub-1

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/primitives/UnsignedLong.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/primitives/ParseRequest.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/hash/Hashing.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/cache/RemovalListener.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources
jar/com/datastax/oss/driver/shaded/guava/common/math/package-info.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources

jar/com/datastax/oss/driver/shaded/guava/common/cache/LoadingCache.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/PatternCompiler.java

* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/JdkPattern.java

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jar/com/datastax/oss/driver/shaded/guava/common/graph/EndpointPair.java

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jar/com/datastax/oss/driver/shaded/guava/common/graph/UndirectedNetworkConnections.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/graph/ConfigurableValueGraph.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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jar/com/datastax/oss/driver/shaded/guava/common/collect/HashMultimapGwtSerializationDependencies.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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jar/com/datastax/oss/driver/shaded/guava/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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 */  
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 * This method was rewritten in Java from an intermediate step of the Murmur hash function in  
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Platform.java

* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/LittleEndianByteArray.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AsyncCallable.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ConsumingQueueIterator.java

* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/hash/MacHashFunction.java

* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/ReaderInputStream.java

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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *     ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

```

Found in path(s):

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedMapFauxverideShim.java

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jar/com/datastax/oss/driver/shaded/guava/common/graph/package-info.java

```

```

* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-

```

jar/com/datastax/oss/driver/shaded/guava/common/collect/CollectSpliterators.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableBiMapFauxverideShim.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Futures.java

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/UncheckedTimeoutException.java

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AggregateFuture.java

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ImmediateFuture.java

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/FuturesGetChecked.java

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/TimeoutFuture.java

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/SimpleTimeLimiter.java

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AbstractTransformFuture.java

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AbstractCatchingFuture.java

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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/TimeLimiter.java

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jar/com/datastax/oss/driver/shaded/guava/common/reflect/TypeToken.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/FakeTimeLimiter.java
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jar/com/datastax/oss/driver/shaded/guava/common/io/AppendableWriter.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/CollectionFuture.java
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jar/com/datastax/oss/driver/shaded/guava/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/base/CaseFormat.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/io/PatternFilenameFilter.java
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jar/com/datastax/oss/driver/shaded/guava/common/hash/AbstractHashFunction.java
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jar/com/datastax/oss/driver/shaded/guava/common/primitives/ImmutableDoubleArray.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/HashBiMap.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/CountingInputStream.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Predicates.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/io/Resources.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/eventbus/EventBus.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Interners.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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*/
```

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jar/com/datastax/oss/driver/shaded/guava/common/collect/GwtTransient.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AtomicLongMap.java
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jar/com/datastax/oss/driver/shaded/guava/common/math/PairedStats.java
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jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ServiceManager.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/SingletonImmutableBiMap.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Platform.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/UnmodifiableIterator.java

* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableCollection.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/HashBasedTable.java
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jar/com/datastax/oss/driver/shaded/guava/common/collect/CompactHashSet.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/base/Ascii.java

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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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* following header:
*
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```

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jar/com/datastax/oss/driver/shaded/guava/common/escape/ArrayBasedCharEscaper.java
```

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```

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/io/LineProcessor.java
```

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/net/HostSpecifier.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/xml/XmlEscapers.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Service.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/net/InternetDomainName.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/SettableFuture.java

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*/

/**

* Returns an array containing all of the elements in the specified collection. This method

* returns the elements in the order they are returned by the collection's iterator. The returned

* array is "safe" in that no references to it are maintained by the collection. The caller is

* thus free to modify the returned array.

```
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/
```

Found in path(s):

```
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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```

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*/
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```

```
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/thirdparty/publicsuffix/PublicSuffixType.java
```

```
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Runnables.java
```

```
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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```

```
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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```

```
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/hash/HashingInputStream.java
```

```
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/eventbus/SubscriberExceptionContext.java
```

```
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/WrappingScheduledExecutorService.java
```

```
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jar/com/datastax/oss/driver/shaded/guava/common/eventbus/SubscriberExceptionHandler.java
```

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jar/com/datastax/oss/driver/shaded/guava/common/base/VerifyException.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/AbstractTable.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/io/CharSequenceReader.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's  
* java.util.HashMap class.  
*/
```

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- * /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingSetMultimap.java
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jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableTable.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
```

```
jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingTable.java
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 */
/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
 * it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */
```

Found in path(s):

```
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Partially.java
```

1.241 curator-framework 5.1.0

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1.242 commons-beanutils-core 1.8.3

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1.243 aspect-j 1.9.7

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1.244 byte-buddy 1.10.22

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1.245 netty-codec-socks 4.1.69.Final

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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java

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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java

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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java

* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java
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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java
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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java

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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksResponse.java
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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java
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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-

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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
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jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
jar/io/netty/handler/codec/socksx/package-info.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
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* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
jar/io/netty/handler/codec/socksx/v4/package-info.java
* /opt/cola/permits/1265673557_1643922099.9/0/netty-codec-socks-4-1-69-final-sources-
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1.246 netty-codec-xml 4.1.69.Final

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* /opt/cola/permits/1235364844_1638382285.3/0/netty-codec-xml-4-1-69-final-sources-jar/io/netty/handler/codec/xml/XmlElementEnd.java
* /opt/cola/permits/1235364844_1638382285.3/0/netty-codec-xml-4-1-69-final-sources-jar/io/netty/handler/codec/xml/XmlComment.java
* /opt/cola/permits/1235364844_1638382285.3/0/netty-codec-xml-4-1-69-final-sources-jar/io/netty/handler/codec/xml/XmlCharacters.java
* /opt/cola/permits/1235364844_1638382285.3/0/netty-codec-xml-4-1-69-final-sources-jar/io/netty/handler/codec/xml/XmlSpace.java
* /opt/cola/permits/1235364844_1638382285.3/0/netty-codec-xml-4-1-69-final-sources-jar/io/netty/handler/codec/xml/XmlCdata.java
* /opt/cola/permits/1235364844_1638382285.3/0/netty-codec-xml-4-1-69-final-sources-jar/io/netty/handler/codec/xml/XmlDecoder.java
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* /opt/cola/permits/1235364844_1638382285.3/0/netty-codec-xml-4-1-69-final-sources-jar/io/netty/handler/codec/xml/XmlElementStart.java
* /opt/cola/permits/1235364844_1638382285.3/0/netty-codec-xml-4-1-69-final-sources-jar/io/netty/handler/codec/xml/XmlProcessingInstruction.java
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* /opt/cola/permits/1235364844_1638382285.3/0/netty-codec-xml-4-1-69-final-sources-jar/io/netty/handler/codec/xml/XmlDTD.java

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1.247 spring-web 5.3.12

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* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/http/codec/json/KotlinSerializationJsonEncoder.java

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* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-
jar/org/springframework/http/server/reactive/AbstractListenerWriteFlushProcessor.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-
jar/org/springframework/http/client/reactive/NettyHeadersAdapter.java
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- * /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/server/WebFilterChain.java
- * /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/http/converter/HttpMessageConversionException.java
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- * /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java
- * /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/bind/annotation/SessionAttributes.java
- * /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
- * /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java
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- * /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/http/converter/HttpMessageNotWritableException.java
- * /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/server/WebFilter.java
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*/

Found in path(s):

* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/HttpMediaTypeException.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/http/server/ServerHttpResponse.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):

* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-
jar/org/springframework/web/filter/ServletContextRequestLoggingFilter.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):

* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-
jar/org/springframework/web/bind/annotation/Mapping.java
No license file was found, but licenses were detected in source scan.

This file maps Internet media types to unique file extension(s).

Although created for httpd, this file is used by many software systems

and has been placed in the public domain for unlimited redistribution.

#

The table below contains both registered and (common) unregistered types.

A type that has no unique extension can be ignored -- they are listed

here to guide configurations toward known types and to make it easier to

identify "new" types. File extensions are also commonly used to indicate

content languages and encodings, so choose them carefully.

#

Internet media types should be registered as described in RFC 4288.

The registry is at <<https://www.iana.org/assignments/media-types/>>.

#

This file was retrieved from

<https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co>

```

#
# MIME type (lowercased) Extensions
# =====
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset ez
# application/applefile
application/applixware aw
# application/atf
# application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml atomsvc
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml ccxml
# application/cdfx+xml
application/cdmi-capability cdmia
application/cdmi-container cdmic
application/cdmi-domain cdmid
application/cdmi-object cdmio
application/cdmi-queue cdmiq
# application/cdni

```

application/cea
application/cea-2018+xml
application/cellml+xml
application/cfw
application/cms
application/cnrx+xml
application/coap-group+json
application/commonground
application/conference-info+xml
application/cpl+xml
application/csrattrs
application/csta+xml
application/cstadata+xml
application/csvm+json
application/cu-seeme cu
application/cybercash
application/dash+xml
application/dashdelta
application/davmount+xml davmount
application/dca-rft
application/dcd
application/dec-dx
application/dialog-info+xml
application/dicom
application/dii
application/dit
application/dns
application/docbook+xml dbk
application/dskpp+xml
application/dssc+der dssc
application/dssc+xml xdssc
application/dvcs
application/ecmascript ecma
application/edi-consent
application/edi-x12
application/edifact
application/efi
application/emergencycalldata.comment+xml
application/emergencycalldata.deviceinfo+xml
application/emergencycalldata.providerinfo+xml
application/emergencycalldata.serviceinfo+xml
application/emergencycalldata.subscriberinfo+xml
application/emma+xml emma
application/emotionml+xml
application/encaprtp
application/epp+xml
application/epub+zip epub
application/eshop

application/example
application/exi exi
application/fastinfoset
application/fastsoap
application/fdt+xml
application/fits
application/font-sfnt
application/font-tdpfr pfr
application/font-woff woff
application/framework-attributes+xml
application/geo+json
application/gml+xml gml
application/gpx+xml gpx
application/gxf gxf
application/gzip
application/h224
application/held+xml
application/http
application/hyperstudio stk
application/ibe-key-request+xml
application/ibe-pkg-reply+xml
application/ibe-pp-data
application/iges
application/im-iscomposing+xml
application/index
application/index.cmd
application/index.obj
application/index.response
application/index.vnd
application/inkml+xml ink inkml
application/iotp
application/ipfix ipfix
application/ipp
application/isup
application/its+xml
application/java-archive jar
application/java-serialized-object ser
application/java-vm class
application/javascript js
application/jose
application/jose+json
application/jrd+json
application/json json
application/json-patch+json
application/json-seq
application/jsonml+json jsonml
application/jwk+json
application/jwk-set+json

application/jwt
application/kpml-request+xml
application/kpml-response+xml
application/ld+json
application/lgr+xml
application/link-format
application/load-control+xml
application/lost+xml lostxml
application/lostsync+xml
application/lxf
application/mac-binhex40 hqx
application/mac-compactpro cpt
application/macwriteii
application/mads+xml mads
application/marc mrc
application/marcxml+xml mrcx
application/mathematica ma nb mb
application/mathml+xml mathml
application/mathml-content+xml
application/mathml-presentation+xml
application/mbms-associated-procedure-description+xml
application/mbms-deregister+xml
application/mbms-envelope+xml
application/mbms-msk+xml
application/mbms-msk-response+xml
application/mbms-protection-description+xml
application/mbms-reception-report+xml
application/mbms-register+xml
application/mbms-register-response+xml
application/mbms-schedule+xml
application/mbms-user-service-description+xml
application/mbox mbox
application/media-policy-dataset+xml
application/media_control+xml
application/mediaservercontrol+xml mscml
application/merge-patch+json
application/metalink+xml metalink
application/metalink4+xml meta4
application/mets+xml mets
application/mf4
application/mikey
application/mods+xml mods
application/moss-keys
application/moss-signature
application/mosskey-data
application/mosskey-request
application/mp21 m21 mp21
application/mp4 mp4s

```
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword doc dot
application/mxf mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda oda
# application/odx
application/oebps-package+xml opf
application/ogg ogx
application/omdoc+xml omdoc
application/onenote onetoc onetoc2 onetmp onepkg
application/oxps oxps
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xml xer
application/pdf pdf
# application/pdx
application/pgp-encrypted pgp
# application/pgp-keys
application/pgp-signature asc sig
application/pics-rules prf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10 p10
# application/pkcs12
application/pkcs7-mime p7m p7c
application/pkcs7-signature p7s
application/pkcs8 p8
application/pkix-attr-cert ac
application/pkix-cert cer
application/pkix-crl crl
application/pkix-pkipath pkipath
application/pkixcmp pki
application/pls+xml pls
# application/poc-settings+xml
```

application/postscript ai eps ps
application/ppsp-tracker+json
application/problem+json
application/problem+xml
application/provenance+xml
application/prs.alvestrand.titraw-sheet
application/prs.cww cww
application/prs.hpub+zip
application/prs.nprend
application/prs.plucker
application/prs.rdf-xml-crypt
application/prs.xsf+xml
application/pskc+xml pskcxml
application/qsig
application/raptorfec
application/rdap+json
application/rdf+xml rdf
application/reginfo+xml rif
application/relax-ng-compact-syntax rnc
application/remote-printing
application/reputon+json
application/resource-lists+xml rl
application/resource-lists-diff+xml rld
application/rfc+xml
application/riscos
application/rlmi+xml
application/rls-services+xml rs
application/rpki-ghostbusters gbr
application/rpki-manifest mft
application/rpki-roa roa
application/rpki-updown
application/rsd+xml rsd
application/rss+xml rss
application/rtf rtf
application/rtploopback
application/rtx
application/samlassertion+xml
application/samlmetadata+xml
application/sbml+xml sbml
application/scaip+xml
application/scim+json
application/scvp-cv-request scq
application/scvp-cv-response scs
application/scvp-vp-request spq
application/scvp-vp-response spp
application/sdp sdp
application/sep+xml
application/sep-exi

application/session-info
application/set-payment
application/set-payment-initiation setpay
application/set-registration
application/set-registration-initiation setreg
application/sgml
application/sgml-open-catalog
application/shf+xml shf
application/sieve
application/simple-filter+xml
application/simple-message-summary
application/simplesymbolcontainer
application/slate
application/smil
application/smil+xml smi smil
application/smpte336m
application/soap+fastinfoset
application/soap+xml
application/sparql-query rq
application/sparql-results+xml srx
application/spirits-event+xml
application/sql
application/srgs gram
application/srgs+xml grxml
application/sru+xml sru
application/ssdl+xml ssdl
application/ssml+xml ssml
application/tamp-apex-update
application/tamp-apex-update-confirm
application/tamp-community-update
application/tamp-community-update-confirm
application/tamp-error
application/tamp-sequence-adjust
application/tamp-sequence-adjust-confirm
application/tamp-status-query
application/tamp-status-response
application/tamp-update
application/tamp-update-confirm
application/tei+xml tei teicorpus
application/thraud+xml tfi
application/timestamp-query
application/timestamp-reply
application/timestamped-data tsd
application/ttml+xml
application/tve-trigger
application/ulpfec
application/urc-grpsheet+xml
application/urc-ressheet+xml

application/urc-targetdesc+xml
application/urc-uisocketdesc+xml
application/vcard+json
application/vcard+xml
application/vemmi
application/vividence.scriptfile
application/vnd.3gpp-prose+xml
application/vnd.3gpp-prose-pc3ch+xml
application/vnd.3gpp.access-transfer-events+xml
application/vnd.3gpp.bsf+xml
application/vnd.3gpp.mid-call+xml
application/vnd.3gpp.pic-bw-large plb
application/vnd.3gpp.pic-bw-small psb
application/vnd.3gpp.pic-bw-var pvb
application/vnd.3gpp.sms
application/vnd.3gpp.sms+xml
application/vnd.3gpp.srvcc-ext+xml
application/vnd.3gpp.srvcc-info+xml
application/vnd.3gpp.state-and-event-info+xml
application/vnd.3gpp.ussd+xml
application/vnd.3gpp2.bcmsginfo+xml
application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap tcap
application/vnd.3lightssoftware.imagescal
application/vnd.3m.post-it-notes pwn
application/vnd.accpac.simply.aso aso
application/vnd.accpac.simply.imp imp
application/vnd.acucobol acu
application/vnd.acucorp atc acutc
application/vnd.adobe.air-application-installer-package+zip air
application/vnd.adobe.flash.movie
application/vnd.adobe.formscentral.fcdt fcdt
application/vnd.adobe.fxp fxp fxpl
application/vnd.adobe.partial-upload
application/vnd.adobe.xdp+xml xdp
application/vnd.adobe.xfdf xfdf
application/vnd.aether.imp
application/vnd.ah-barcode
application/vnd.ahead.space ahead
application/vnd.airzip.filesecure.azf azf
application/vnd.airzip.filesecure.azs azs
application/vnd.amazon.ebook azw
application/vnd.amazon.mobi8-ebook
application/vnd.americandynamics.acc acc
application/vnd.amiga.ami ami
application/vnd.amundsen.maze+xml
application/vnd.android.package-archive apk
application/vnd.anki

application/vnd.anser-web-certificate-issue-initiation cii
application/vnd.anser-web-funds-transfer-initiation fti
application/vnd.antix.game-component atx
application/vnd.apache.thrift.binary
application/vnd.apache.thrift.compact
application/vnd.apache.thrift.json
application/vnd.api+json
application/vnd.apple.installer+xml mpkg
application/vnd.apple.mpegurl m3u8
application/vnd.arastra.swi
application/vnd.aristanetworks.swi swi
application/vnd.artsquare
application/vnd.astraea-software.iota iota
application/vnd.audiograph aep
application/vnd.autopackage
application/vnd.avistar+xml
application/vnd.balsamiq.bmml+xml
application/vnd.balsamiq.bmpr
application/vnd.bekitzur-stech+json
application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass mpm
application/vnd.bluetooth.ep.oob
application/vnd.bluetooth.le.oob
application/vnd.bmi bmi
application/vnd.businessobjects rep
application/vnd.cab-jscript
application/vnd.canon-cpdl
application/vnd.canon-lips
application/vnd.cendio.thinlinc.clientconf
application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml cdxml
application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd mmd
application/vnd.cinderella cdy
application/vnd.cirpack.isdn-ext
application/vnd.citationstyles.style+xml
application/vnd.claymore cla
application/vnd.cloanto.rp9 rp9
application/vnd.clonk.c4group c4g c4d c4f c4p c4u
application/vnd.cluetrust.cartomobile-config c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
application/vnd.coffeescript
application/vnd.collection+json
application/vnd.collection.doc+json
application/vnd.collection.next+json
application/vnd.comicbook+zip
application/vnd.commerce-battelle
application/vnd.commonspace csp

application/vnd.contact.cmsg cdbcmg
application/vnd.coreos.ignition+json
application/vnd.cosmocaller cmc
application/vnd.crick.clicker clkx
application/vnd.crick.clicker.keyboard clkk
application/vnd.crick.clicker.palette clkp
application/vnd.crick.clicker.template clkt
application/vnd.crick.clicker.wordbank clkw
application/vnd.criticaltools.wbs+xml wbs
application/vnd.ctc-posml pml
application/vnd.ctct.ws+xml
application/vnd.cups-pdf
application/vnd.cups-postscript
application/vnd.cups-ppd ppd
application/vnd.cups-raster
application/vnd.cups-raw
application/vnd.curl
application/vnd.curl.car car
application/vnd.curl.pcurl pcurl
application/vnd.cyan.dean.root+xml
application/vnd.cybank
application/vnd.dart dart
application/vnd.data-vision.rdz rdz
application/vnd.debian.binary-package
application/vnd.dece.data uvf uvvf uvd uvvd
application/vnd.dece.ttml+xml uvt uvvt
application/vnd.dece.unspecified uvx uvvx
application/vnd.dece.zip uvz uvvz
application/vnd.denovo.fcselayout-link fe_launch
application/vnd.desmume.movie
application/vnd.dir-bi.plate-dl-nosuffix
application/vnd.dm.delegation+xml
application/vnd.dna dna
application/vnd.document+json
application/vnd.dolby.mlp mlp
application/vnd.dolby.mobile.1
application/vnd.dolby.mobile.2
application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph dpg
application/vnd.dreamfactory dfac
application/vnd.drive+json
application/vnd.ds-keypoint kpxx
application/vnd.dtg.local
application/vnd.dtg.local.flash
application/vnd.dtg.local.html
application/vnd.dvb.ait ait
application/vnd.dvb.dvbj
application/vnd.dvb.esgcontainer


```
# application/vnd.dvb.ipdcdfnotifaccess
# application/vnd.dvb.ipdcesgaccess
# application/vnd.dvb.ipdcesgaccess2
# application/vnd.dvb.ipdcesgpdd
# application/vnd.dvb.ipdcroaming
# application/vnd.dvb.iptv.alfec-base
# application/vnd.dvb.iptv.alfec-enhancement
# application/vnd.dvb.notif-aggregate-root+xml
# application/vnd.dvb.notif-container+xml
# application/vnd.dvb.notif-generic+xml
# application/vnd.dvb.notif-ia-msglist+xml
# application/vnd.dvb.notif-ia-registration-request+xml
# application/vnd.dvb.notif-ia-registration-response+xml
# application/vnd.dvb.notif-init+xml
# application/vnd.dvb.pfr
application/vnd.dvb.service svc
# application/vnd.dxr
application/vnd.dynageo geo
# application/vnd.dzr
# application/vnd.easykaraoke.cdgdownload
# application/vnd.ecdis-update
application/vnd.ecowin.chart mag
# application/vnd.ecowin.filerequest
# application/vnd.ecowin.fileupdate
# application/vnd.ecowin.series
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
# application/vnd.enphase.envoy
# application/vnd.eprints.data+xml
application/vnd.epson.esf esf
application/vnd.epson.msf msf
application/vnd.epson.quickanime qam
application/vnd.epson.salt slt
application/vnd.epson.ssf ssf
# application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml es3 et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
```

application/vnd.etsi.iptvservice+xml
application/vnd.etsi.iptvsync+xml
application/vnd.etsi.iptvueprofile+xml
application/vnd.etsi.mcid+xml
application/vnd.etsi.mheg5
application/vnd.etsi.overload-control-policy-dataset+xml
application/vnd.etsi.pstn+xml
application/vnd.etsi.sci+xml
application/vnd.etsi.simservs+xml
application/vnd.etsi.timestamp-token
application/vnd.etsi.tsl+xml
application/vnd.etsi.tsl.der
application/vnd.eudora.data
application/vnd.ezpix-album ez2
application/vnd.ezpix-package ez3
application/vnd.f-secure.mobile
application/vnd.fastcopy-disk-image
application/vnd.fdf fdf
application/vnd.fdsn.mseed mseed
application/vnd.fdsn.seed seed dataless
application/vnd.ffsns
application/vnd.filmit.zfc
application/vnd.fints
application/vnd.firemonkeys.cloudcell
application/vnd.flographit gph
application/vnd.fluxtime.clip ftc
application/vnd.font-fontforge-sfd
application/vnd.frameMaker fm frame maker book
application/vnd.frogans.fnc fnc
application/vnd.frogans.ltf ltf
application/vnd.fsc.weblaunch fsc
application/vnd.fujitsu.oasys oas
application/vnd.fujitsu.oasys2 oa2
application/vnd.fujitsu.oasys3 oa3
application/vnd.fujitsu.oasysgp fg5
application/vnd.fujitsu.oasysprs bh2
application/vnd.fujixerox.art-ex
application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd ddd
application/vnd.fujixerox.docuworks xdw
application/vnd.fujixerox.docuworks.binder xbd
application/vnd.fujixerox.docuworks.container
application/vnd.fujixerox.hbpl
application/vnd.fut-misnet
application/vnd.fuzzysheet fzs
application/vnd.genomatix.tuxedo txd
application/vnd.geo+json
application/vnd.geocube+xml

application/vnd.geogebra.file ggb
application/vnd.geogebra.tool ggt
application/vnd.geometry-explorer gex gre
application/vnd.geonext gxt
application/vnd.geoplan g2w
application/vnd.geospace g3w
application/vnd.gerber
application/vnd.globalplatform.card-content-mgt
application/vnd.globalplatform.card-content-mgt-response
application/vnd.gmx gmx
application/vnd.google-earth.kml+xml kml
application/vnd.google-earth.kmz kmz
application/vnd.gov.sk.e-form+xml
application/vnd.gov.sk.e-form+zip
application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq gqf gqs
application/vnd.gridmp
application/vnd.groove-account gac
application/vnd.groove-help ghf
application/vnd.groove-identity-message gim
application/vnd.groove-injector grv
application/vnd.groove-tool-message gtm
application/vnd.groove-tool-template tpl
application/vnd.groove-vcard vcg
application/vnd.hal+json
application/vnd.hal+xml hal
application/vnd.handheld-entertainment+xml zmm
application/vnd.hbci hbci
application/vnd.hcl-bireports
application/vnd.hdt
application/vnd.heroku+json
application/vnd.hhe.lesson-player les
application/vnd.hp-hpgl hpgl
application/vnd.hp-hpid hpid
application/vnd.hp-hps hps
application/vnd.hp-jlyt jlt
application/vnd.hp-pcl pcl
application/vnd.hp-pclxl pclxl
application/vnd.httpphone
application/vnd.hydrostatix.sof-data sfd-hdstx
application/vnd.hyperdrive+json
application/vnd.hzn-3d-crossword
application/vnd.ibm.afplinedata
application/vnd.ibm.electronic-media
application/vnd.ibm.minipay mpy
application/vnd.ibm.modcap afp listafp list3820
application/vnd.ibm.rights-management irm
application/vnd.ibm.secure-container sc

application/vnd.iccprofile icc icm
application/vnd.ieee.1905
application/vnd.igloader igl
application/vnd.immervision-ivp ivp
application/vnd.immervision-ivu ivu
application/vnd.ims.imsccv1p1
application/vnd.ims.imsccv1p2
application/vnd.ims.imsccv1p3
application/vnd.ims.lis.v2.result+json
application/vnd.ims.lti.v2.toolconsumerprofile+json
application/vnd.ims.lti.v2.toolproxy+json
application/vnd.ims.lti.v2.toolproxy.id+json
application/vnd.ims.lti.v2.toolsettings+json
application/vnd.ims.lti.v2.toolsettings.simple+json
application/vnd.informedcontrol.rms+xml
application/vnd.informix-visionary
application/vnd.infotech.project
application/vnd.infotech.project+xml
application/vnd.innopath.wamp.notification
application/vnd.insors.igm igm
application/vnd.intercon.formnet xpw xpx
application/vnd.intergeo i2g
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application/vnd.yamaha.tunnel-udpencap
application/vnd.yaoweme
application/vnd.yellowriver-custom-menu cmp

application/vnd.zul zir zirz
application/vnd.zzazz.deck+xml zaz
application/voicexml+xml vxml
application/vq-rtcpvr
application/watcherinfo+xml
application/whoispp-query
application/whoispp-response
application/widget wgt
application/winhelp hlp
application/wita
application/wordperfect5.1
application/wsdl+xml wsdl
application/wspolicy+xml wspolicy
application/x-7z-compressed 7z
application/x-abiword abw
application/x-ace-compressed ace
application/x-amf
application/x-apple-diskimage dmg
application/x-authorware-bin aab x32 u32 vox
application/x-authorware-map aam
application/x-authorware-seg aas
application/x-bcpio bcpio
application/x-bittorrent torrent
application/x-blorb blb blorb
application/x-bzip bz
application/x-bzip2 bz2 boz
application/x-cbr cbr cba cbt cbz cb7
application/x-cdlink vcd
application/x-cfs-compressed cfs
application/x-chat chat
application/x-chess-pgn pgn
application/x-compress
application/x-conference nsc
application/x-cpio cpio
application/x-csh csh
application/x-debian-package deb udeb
application/x-dgc-compressed dgc
application/x-director dir dcr dxr cst cct ext w3d fgd swa
application/x-doom wad
application/x-dtbncx+xml ncx
application/x-dtbook+xml dtb
application/x-dtbresource+xml res
application/x-dvi dvi
application/x-envoy evy
application/x-eva eva
application/x-font-bdf bdf
application/x-font-dos
application/x-font-framemaker

application/x-font-ghostscript gsf
application/x-font-libgrx
application/x-font-linux-psf psf
application/x-font-otf otf
application/x-font-pcf pcf
application/x-font-snf snf
application/x-font-speedo
application/x-font-sunos-news
application/x-font-ttf ttf ttc
application/x-font-type1 pfa pfb pfm afm
application/x-font-vfont
application/x-freearc arc
application/x-futuresplash spl
application/x-gca-compressed gca
application/x-glulx ulx
application/x-gnumeric gnumeric
application/x-gramps-xml gramps
application/x-gtar gtar
application/x-gzip
application/x-hdf hdf
application/x-install-instructions install
application/x-iso9660-image iso
application/x-java-jnlp-file jnlp
application/x-latex latex
application/x-lzh-compressed lzh lha
application/x-mie mie
application/x-mobipocket-ebook prc mobi
application/x-ms-application application
application/x-ms-shortcut lnk
application/x-ms-wmd wmd
application/x-ms-wmz wmz
application/x-ms-xbap xbap
application/x-msaccess mdb
application/x-msbinder obd
application/x-mscardfile crd
application/x-msclip clp
application/x-msdownload exe dll com bat msi
application/x-msmediaview mvb m13 m14
application/x-msmetafile wmf wmz emf emz
application/x-msmoney mny
application/x-mspublisher pub
application/x-msschedule scd
application/x-msterminal trm
application/x-mswrite wri
application/x-netcdf nc cdf
application/x-nzb nzb
application/x-pkcs12 p12 pfx
application/x-pkcs7-certificates p7b spc

application/x-pkcs7-certreqresp p7r
application/x-rar-compressed rar
application/x-research-info-systems ris
application/x-sh sh
application/x-shar shar
application/x-shockwave-flash swf
application/x-silverlight-app xap
application/x-sql sql
application/x-stuffit sit
application/x-stuffitx sitx
application/x-subrip srt
application/x-sv4cpio sv4cpio
application/x-sv4crc sv4crc
application/x-t3vm-image t3
application/x-tads gam
application/x-tar tar
application/x-tcl tcl
application/x-tex tex
application/x-tex-tfm tfm
application/x-texinfo texinfo texi
application/x-tgif obj
application/x-ustar ustar
application/x-wais-source src
application/x-www-form-urlencoded
application/x-x509-ca-cert der crt
application/x-xfig fig
application/x-xliff+xml xlf
application/x-xpinstall xpi
application/x-xz xz
application/x-zmachine z1 z2 z3 z4 z5 z6 z7 z8
application/x400-bp
application/xacml+xml
application/xaml+xml xaml
application/xcap-att+xml
application/xcap-caps+xml
application/xcap-diff+xml xdf
application/xcap-el+xml
application/xcap-error+xml
application/xcap-ns+xml
application/xcon-conference-info+xml
application/xcon-conference-info-diff+xml
application/xenc+xml xenc
application/xhtml+xml xhtml xht
application/xhtml-voice+xml
application/xml xml xsl
application/xml-dtd dtd
application/xml-external-parsed-entity
application/xml-patch+xml

```
# application/xmpp+xml
application/xop+xml xop
application/xproc+xml xpl
application/xslt+xml xslt
application/xspf+xml xspf
application/xv+xml mxml xhvm xvml xvm
application/yang yang
application/yin+xml yin
application/zip zip
# application/zlib
# audio/1d-interleaved-parityfec
# audio/32kadpcm
# audio/3gpp
# audio/3gpp2
# audio/ac3
audio/adpcm adp
# audio/amr
# audio/amr-wb
# audio/amr-wb+
# audio/aptx
# audio/asc
# audio/atrac-advanced-lossless
# audio/atrac-x
# audio/atrac3
audio/basic au snd
# audio/bv16
# audio/bv32
# audio/clearmode
# audio/cn
# audio/dat12
# audio/dls
# audio/dsr-es201108
# audio/dsr-es202050
# audio/dsr-es202211
# audio/dsr-es202212
# audio/dv
# audio/dvi4
# audio/eac3
# audio/encprtp
# audio/evrc
# audio/evrc-qcp
# audio/evrc0
# audio/evrc1
# audio/evrcb
# audio/evrcb0
# audio/evrcb1
# audio/evrcnw
# audio/evrcnw0
```

audio/evrcnw1
audio/evrcwb
audio/evrcwb0
audio/evrcwb1
audio/evs
audio/example
audio/fwdred
audio/g711-0
audio/g719
audio/g722
audio/g7221
audio/g723
audio/g726-16
audio/g726-24
audio/g726-32
audio/g726-40
audio/g728
audio/g729
audio/g7291
audio/g729d
audio/g729e
audio/gsm
audio/gsm-efr
audio/gsm-hr-08
audio/ilbc
audio/ip-mr_v2.5
audio/isac
audio/l16
audio/l20
audio/l24
audio/l8
audio/lpc
audio/midi mid midi kar rmi
audio/mobile-xmf
audio/mp4 m4a mp4a
audio/mp4a-latm
audio/mpa
audio/mpa-robust
audio/mpeg mpga mp2 mp2a mp3 m2a m3a
audio/mpeg4-generic
audio/musepack
audio/ogg oga ogg spx
audio/opus
audio/parityfec
audio/pcma
audio/pcma-wb
audio/pcmu
audio/pcmu-wb

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audio/qcelp
audio/raptorfec
audio/red
audio/rtp-enc-aescm128
audio/rtp-midi
audio/rtploopback
audio/rtx
audio/s3m s3m
audio/silk sil
audio/smv
audio/smv-qcp
audio/smv0
audio/sp-midi
audio/speex
audio/t140c
audio/t38
audio/telephone-event
audio/tone
audio/uemclip
audio/ulpfec
audio/vdvi
audio/vmr-wb
audio/vnd.3gpp.iufp
audio/vnd.4sb
audio/vnd.audiokoz
audio/vnd.celp
audio/vnd.cisco.nse
audio/vnd.cmles.radio-events
audio/vnd.cns.anp1
audio/vnd.cns.inf1
audio/vnd.dece.audio uva uvva
audio/vnd.digital-winds eol
audio/vnd.dlna.adts
audio/vnd.dolby.heaac.1
audio/vnd.dolby.heaac.2
audio/vnd.dolby.mlp
audio/vnd.dolby.mps
audio/vnd.dolby.pl2
audio/vnd.dolby.pl2x
audio/vnd.dolby.pl2z
audio/vnd.dolby.pulse.1
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audio/vnd.dts dts
audio/vnd.dts.hd dtshd
audio/vnd.dvb.file
audio/vnd.everad.plj
audio/vnd.hns.audio

audio/vnd.lucent.voice lvp
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audio/vnd.nuera.ecelp4800 ecelp4800
audio/vnd.nuera.ecelp7470 ecelp7470
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audio/vnd.rip rip
audio/vnd.sealedmedia.softseal.mpeg
audio/vnd.vmx.cvsd
audio/vorbis
audio/vorbis-config
audio/webm weba
audio/x-aac aac
audio/x-aiff aif aiff aifc
audio/x-caf caf
audio/x-flac flac
audio/x-matroska mka
audio/x-mpegurl m3u
audio/x-ms-wax wax
audio/x-ms-wma wma
audio/x-pn-realaudio ram ra
audio/x-pn-realaudio-plugin rmp
audio/x-tta
audio/x-wav wav
audio/xm xm
chemical/x-cdx cdx
chemical/x-cif cif
chemical/x-cmdf cmdf
chemical/x-cml cml
chemical/x-csml csml
chemical/x-pdb
chemical/x-xyz xyz
image/bmp bmp
image/cgm cgm
image/dicom-rle
image/emf
image/example
image/fits
image/g3fax g3
image/gif gif
image/ief ief
image/jls
image/jp2
image/jpeg jpeg jpg jpe

```
# image/jpm
# image/jpx
image/ktx ktx
# image/naplps
image/png png
image/prs.btif btif
# image/prs.pti
# image/pwg-raster
image/sgi sgi
image/svg+xml svg svgz
# image/t38
image/tiff tiff tif
# image/tiff-fx
image/vnd.adobe.photoshop psd
# image/vnd.airzip.accelerator.azv
# image/vnd.cns.inf2
image/vnd.dece.graphic uvi uvvi uvg uvvg
image/vnd.djvu djvu djv
image/vnd.dvb.subtitle sub
image/vnd.dwg dwg
image/vnd.dxf dxf
image/vnd.fastbidsheet fbs
image/vnd.fpx fpx
image/vnd.fst fst
image/vnd.fujixerox.edmics-mmr mmr
image/vnd.fujixerox.edmics-rlc rlc
# image/vnd.globalgraphics.pgb
# image/vnd.microsoft.icon
# image/vnd.mix
# image/vnd.mozilla.apng
image/vnd.ms-modi mdi
image/vnd.ms-photo wdp
image/vnd.net-fpx npx
# image/vnd.radiance
# image/vnd.sealed.png
# image/vnd.sealedmedia.softseal.gif
# image/vnd.sealedmedia.softseal.jpg
# image/vnd.svf
# image/vnd.tencent.tap
# image/vnd.valve.source.texture
image/vnd.wap.wbmp wbmp
image/vnd.xiff xiff
# image/vnd.zbrush.pcx
image/webp webp
# image/wmf
image/x-3ds 3ds
image/x-cmu-raster ras
image/x-cmx cmx
```

image/x-freehand fh fhc fh4 fh5 fh7
image/x-icon ico
image/x-mrsid-image sid
image/x-pcx pcx
image/x-pict pic pct
image/x-portable-anymap pnm
image/x-portable-bitmap pbm
image/x-portable-graymap pgm
image/x-portable-pixmap ppm
image/x-rgb rgb
image/x-tga tga
image/x-xbitmap xbm
image/x-xpixmap xpm
image/x-xwindowdump xwd
message/cpim
message/delivery-status
message/disposition-notification
message/example
message/external-body
message/feedback-report
message/global
message/global-delivery-status
message/global-disposition-notification
message/global-headers
message/http
message/imdn+xml
message/news
message/partial
message/rfc822 eml mime
message/s-http
message/sip
message/sipfrag
message/tracking-status
message/vnd.si.simp
message/vnd.wfa.wsc
model/example
model/gltf+json
model/iges igs iges
model/mesh msh mesh silo
model/vnd.collada+xml dae
model/vnd.dwf dwf
model/vnd.flatland.3dml
model/vnd.gdl gdl
model/vnd.gs-gdl
model/vnd.gs.gdl
model/vnd.gtw gtw
model/vnd.moml+xml
model/vnd.mts mts


```
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu    vtu
model/vrml     wrl vrml
model/x3d+binary  x3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrml   x3dv x3dvz
model/x3d+xml    x3d x3dz
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
# text/1d-interleaved-parityfec
text/cache-manifest  appcache
text/calendar        ics ifb
text/css             css
text/csv             csv
# text/csv-schema
# text/directory
# text/dns
# text/ecascript
# text/encaprtpt
# text/enriched
# text/example
# text/fwdred
# text/grammar-ref-list
text/html            html htm
# text/javascript
# text/jcr-cnd
# text/markdown
# text/mizar
text/n3              n3
# text/parameters
```

```
# text/parityfec
text/plain txt text conf def list log in
# text/provenance-notation
# text/prs.fallenstein.rst
text/prs.lines.tag dsc
# text/prs.prop.logic
# text/raptorfec
# text/red
# text/rfc822-headers
text/richtext rtx
# text/rtf
# text/rtp-enc-aescm128
# text/rtploopback
# text/rtx
text/sgml sgml sgm
# text/t140
text/tab-separated-values tsv
text/troff t tr roff man me ms
text/turtle ttl
# text/ulpfec
text/uri-list uri uris urls
text/vcard vcard
# text/vnd.a
# text/vnd.abc
text/vnd.curl curl
text/vnd.curl.dcurl dcurl
text/vnd.curl.mcurl mcurl
text/vnd.curl.scurl scurl
# text/vnd.debian.copyright
# text/vnd.dmclientscript
text/vnd.dvb.subtitle sub
# text/vnd.esmertec.theme-descriptor
text/vnd.fly fly
text/vnd.fmi.flexstor flx
text/vnd.graphviz gv
text/vnd.in3d.3dml 3dml
text/vnd.in3d.spot spot
# text/vnd.ipbc.newsml
# text/vnd.ipbc.nitf
# text/vnd.latex-z
# text/vnd.motorola.reflex
# text/vnd.ms-mediapackage
# text/vnd.net2phone.commcenter.command
# text/vnd.radixsys.msml-basic-layout
# text/vnd.si.uricatalogue
text/vnd.sun.j2me.app-descriptor jad
# text/vnd.trolltech.linguist
# text/vnd.wap.si
```

```
# text/vnd.wap.sml
text/vnd.wap.wml wml
text/vnd.wap.wmlscript wmls
text/x-asm s asm
text/x-c c cc cxx cpp h hh dic
text/x-fortran f for f77 f90
text/x-java-source java
text/x-nfo nfo
text/x-opml opml
text/x-pascal p pas
text/x-setext etx
text/x-sfv sfv
text/x-uuencode uu
text/x-vcalendar vcs
text/x-vcard vcf
# text/xml
# text/xml-external-parsed-entity
# video/1d-interleaved-parityfec
video/3gpp 3gp
# video/3gpp-tt
video/3gpp2 3g2
# video/bmpeg
# video/bt656
# video/celb
# video/dv
# video/encaprtmp
# video/example
video/h261 h261
video/h263 h263
# video/h263-1998
# video/h263-2000
video/h264 h264
# video/h264-rcdo
# video/h264-svc
# video/h265
# video/iso.segment
video/jpeg jpgv
# video/jpeg2000
video/jpm jpm jpgm
video/mj2 mj2 mjp2
# video/mp1s
# video/mp2p
# video/mp2t
video/mp4 mp4 mp4v mpg4
# video/mp4v-es
video/mpeg mpeg mpg mpe m1v m2v
# video/mpeg4-generic
# video/mpv
```

```
# video/nv
video/ogg  ogv
# video/parityfec
# video/pointer
video/quicktime  qt mov
# video/raptorfec
# video/raw
# video/rtp-enc-aescm128
# video/rtploopback
# video/rtx
# video/smp292m
# video/ulpfec
# video/vc1
# video/vnd.cctv
video/vnd.dece.hd  uvh uvvh
video/vnd.dece.mobile  uvm uvvm
# video/vnd.dece.mp4
video/vnd.dece.pd  uvp uvvp
video/vnd.dece.sd  uvs uvvs
video/vnd.dece.video  uvv uvvv
# video/vnd.directv.mpeg
# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
video/vnd.dvb.file  dvb
video/vnd.fvt  fvt
# video/vnd.hns.video
# video/vnd.iptvforum.1dparityfec-1010
# video/vnd.iptvforum.1dparityfec-2005
# video/vnd.iptvforum.2dparityfec-1010
# video/vnd.iptvforum.2dparityfec-2005
# video/vnd.iptvforum.ttsavc
# video/vnd.iptvforum.ttsmpeg2
# video/vnd.motorola.video
# video/vnd.motorola.videop
video/vnd.mpegurl  mxu m4u
video/vnd.ms-playready.media.pyv  pyv
# video/vnd.nokia.interleaved-multimedia
# video/vnd.nokia.videovoip
# video/vnd.objectvideo
# video/vnd.radgamettools.bink
# video/vnd.radgamettools.smacker
# video/vnd.sealed.mpeg1
# video/vnd.sealed.mpeg4
# video/vnd.sealed.swf
# video/vnd.sealedmedia.softseal.mov
video/vnd.uvu.mp4  uvu uvvu
video/vnd.vivo  viv
# video/vp8
```

video/webm webm
video/x-f4v f4v
video/x-fli fli
video/x-flv flv
video/x-m4v m4v
video/x-matroska mkv mk3d mks
video/x-mng mng
video/x-ms-asf asf asx
video/x-ms-vob vob
video/x-ms-wm wm
video/x-ms-wmv wmv
video/x-ms-wmx wmx
video/x-ms-wvx wvx
video/x-msvideo avi
video/x-sgi-movie movie
video/x-smv smv
x-conference/x-cooltalk ice

Found in path(s):

* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/http/mime.types

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* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java

* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/context/ConfigurableWebEnvironment.java

* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java

* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/bind/annotation/ValueConstants.java

* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/http/client/AbstractClientHttpResponse.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/bind/ServletRequestBindingException.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/client/ResourceAccessException.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/bind/support/SimpleSessionStatus.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/util/IntrospectorCleanupListener.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/http/MediaTypeEditor.java
* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/bind/annotation/InitBinder.java

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* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/context/support/ServletContextResourceLoader.java

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- * /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/http/converter/smile/MappingJackson2SmileHttpMessageConverter.java
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* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-
jar/org/springframework/web/util/JavaScriptUtils.java

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org.springframework.web.server.adapter.WebHttpHandlerBuilder\$SpringWebBlockHoundIntegration

Found in path(s):

* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

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* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java

* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java

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* limitations under the License.
*/
/**
* Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
* client, or with a new session id either because the client did not
* specify one or because the underlying session had expired. Use of this
* method does not automatically create a session. See {@link WebSession}
* for more details.
*/
```

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* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-
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jar/org/springframework/web/accept/FixedContentNegotiationStrategy.java
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* /opt/cola/permits/1220178512_1635319417.38/0/spring-web-5-3-12-sources-
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jar/org/springframework/http/server/ServerHttpRequest.java
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jar/org/springframework/http/HttpRange.java
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jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
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jar/org/springframework/http/converter/BufferedImageHttpMessageConverter.java
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1.248 spring-kafka 2.7.1

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jar/org/springframework/kafka/support/LoggingProducerListener.java

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jar/org/springframework/kafka/config/MethodKafkaListenerEndpoint.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
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jar/org/springframework/kafka/streams/HeaderEnricher.java
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jar/org/springframework/kafka/event/ConsumerStoppingEvent.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/event/ConsumerResumedEvent.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/support/serializer/ErrorHandlingDeserializer.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/event/ConsumerPausedEvent.java
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jar/org/springframework/kafka/support/CompositeProducerListener.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/event/ConsumerStoppedEvent.java
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- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/ContainerAwareBatchErrorHandler.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/ConsumerAwareListenerErrorHandler.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/DefaultKafkaHeaderMapper.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/converter/DefaultJackson2JavaTypeMapper.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/ConsumerAwareBatchErrorHandler.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/transaction/KafkaTransactionManager.java

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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/config/StreamsBuilderFactoryBean.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/retrytopic/FixedDelayStrategy.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/PartitionPausingBackOffManagerFactory.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/KafkaBackoffException.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/retrytopic/BackOffValuesGenerator.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/listener/adapters/KafkaBackoffAwareMessageListenerAdapter.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/RetryingBatchErrorHandler.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/config/CompositeKafkaStreamsInfrastructureCustomizer.java
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- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/converter/MappingJacksonParameterizedConverter.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/config/StreamsBuilderFactoryBeanConfigurer.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/ListenerContainerRegistry.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/RecoveryStrategy.java
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- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/BatchInterceptor.java
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- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/RetryListener.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/ConsumerAwareRecordInterceptor.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/retrytopic/SuffixingRetryTopicNamesProviderFactory.java

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jar/org/springframework/kafka/support/JacksonPresent.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/converter/Jackson2JavaTypeMapper.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/annotation/PartitionOffset.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/support/serializer/ParseStringDeserializer.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/annotation/TopicPartition.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/core/ProducerFactory.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/listener/GenericErrorHandler.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/support/serializer/ToStringSerializer.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-

jar/org/springframework/kafka/core/KafkaProducerException.java
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jar/org/springframework/kafka/retrytopic/DestinationTopicContainer.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/listener/SeekToCurrentErrorHandler.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/listener/ConsumerAwareErrorHandler.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/annotation/KafkaStreamsDefaultConfiguration.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/listener/ConsumerAwareRebalanceListener.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/listener/SeekToCurrentBatchErrorHandler.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/listener/AcknowledgingConsumerAwareMessageListener.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/retrytopic/DefaultDestinationTopicProcessor.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/core/KafkaAdmin.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
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- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/event/ListenerContainerNoLongerIdleEvent.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/core/ProducerPostProcessor.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/adapters/ConsumerRecordMetadata.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/adapters/BatchToRecordAdapter.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/serializer/JsonTypeResolver.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/serializer/SerializationUtils.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/DeliveryAttemptAware.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/KafkaExceptionLogLevelAware.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/ListenerInvokingBatchErrorHandler.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/core/KafkaSendCallback.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/streams/KafkaStreamsMicrometerListener.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/adapters/DefaultBatchToRecordAdapter.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/micrometer/MicrometerHolder.java
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- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/core/RoutingKafkaTemplate.java
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- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/config/KafkaStreamsInfrastructureCustomizer.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-

jar/org/springframework/kafka/listener/adapter/AdapterUtils.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/core/ABSwitchCluster.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/core/KafkaFailureCallback.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/core/KafkaResourceFactory.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/core/ConsumerPostProcessor.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/config/CompositeKafkaStreamsCustomizer.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/event/ConsumerFailedToStartEvent.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/support/converter/BytesJsonMessageConverter.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/core/CleanupConfig.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/listener/adapter/ReplyHeadersConfigurer.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/config/KafkaStreamsConfiguration.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/config/KafkaListenerEndpointAdapter.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/event/ConsumerStartedEvent.java

* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/adapters/InvocationResult.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/requestreply/CorrelationKey.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/SimpleKafkaHeaderMapper.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/TransactionSupport.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/Acknowledgment.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/MessageListener.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/BatchAcknowledgingMessageListener.java
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- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/adaptor/AbstractDelegatingMessageListenerAdapter.java
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- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/BatchLoggingErrorHandler.java
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- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/ListenerExecutionFailedException.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/annotation/EnableKafkaStreams.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/adaptor/RecordFilterStrategy.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/adaptor/AbstractRetryingMessageListenerAdapter.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/SendResult.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/converter/MessageConverter.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/annotation/EnableKafka.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/listener/ConsumerSeekAware.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/annotation/KafkaListeners.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/config/KafkaListenerConfigUtils.java
- * /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-jar/org/springframework/kafka/support/converter/RecordMessageConverter.java

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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/support/converter/ConversionException.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/listener/adapters/AbstractFilteringMessageListener.java
* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/support/KafkaNull.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/config/TopicBuilder.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/support/serializer/DelegatingDeserializer.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/support/TopicPartitionOffset.java
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* /opt/cola/permits/1256060472_1642635524.21/0/spring-kafka-2-7-1-sources-
jar/org/springframework/kafka/core/reactive/ReactiveKafkaConsumerTemplate.java
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 * ~~~~~
 *
 * Module Name   : JSIP Specification
 * File Name    : AuthorizationHeader.java
```

* Author : Phelim O'Doherty

*

* HISTORY

* Version Date Author Comments

* 1.1 08/10/2002 Phelim O'Doherty

~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/AuthorizationHeader.java

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\*

\* Module Name : JSIP Specification

\* File Name : CallIdHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

~~~~~

*/

Found in path(s):

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```

*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : TimeoutEvent.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version
* ~~~~~
*/

```

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 \* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/TimeoutEvent.java  
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*
* Module Name : JSIP Specification
* File Name   : Request.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version
* ~~~~~
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```

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*
* Module Name : JSIP Specification
* File Name   : SipException.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
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*
* Module Name : JSIP Specification
* File Name   : OptionTag.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version
* ~~~~~
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*
* Module Name : JSIP Specification
* File Name   : DialogState.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version
* 1.2 07/07/2005 Phelim O'Doherty Deprecated the completed state.
* ~~~~~
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*
* Module Name : JSIP Specification
* File Name   : RouteHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/

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 *
 * Module Name   : JSIP Specification
 * File Name     : ContentLengthHeader.java
 * Author        : Phelim O'Doherty
 *
 * HISTORY
 * Version  Date   Author      Comments
 * 1.1      08/10/2002 Phelim O'Doherty
 * ~~~~~
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 *
 * Module Name   : JSIP Specification
 * File Name     : OrganizationHeader.java
 * Author        : Phelim O'Doherty
 *
 * HISTORY
```

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* ~~~~~  
\*/

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\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/OrganizationHeader.java

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\*

\* Module Name : JSIP Specification

\* File Name : Response.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* ~~~~~

\*/

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\*

\* Module Name : JSIP Specification

\* File Name : SipProvider.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Reworked

\* 1.2 05/03/2005 M. Ranganathan getNewDialog method added.

\* 1.2 07/07/2005 Phelim O'Doherty Added add/removeListeningPoint methods

\* Added getListeningPoints method

\* Removed restriction that a SipProvider

\* can only have a single ListeningPoint

\* 1.2 09/07/2005 M. Ranganathan Added getListeningPoint( String transport)

\*

\* ~~~~~

\*/

/\*\*

\* This interface represents the messaging entity of a SIP stack and as

\* such is the interface that defines the messaging and transactional

\* component view of the SIP stack. It must be implemented by any object

\* representing a SIP stack compliant to this specification that interacts

\* directly with a proprietary implementation of a SIP stack.

\* This interface defines the methods that enable any registered

\* application implementing the { @link javax.sip.SipListener } interface to:

\* <ul>

\* <li> Register a { @link javax.sip.SipListener } to the SipProvider. Once

\* the SipListener is registered with the SipProvider it will get notified

\* of Events representing either Request, Response, Timeout messages, Network

\* errors and Transaction termination.

\* <li> De-register a { @link javax.sip.SipListener } from the SipProvider.

\* Once a SipListener is de-registered, it will no longer receive any Events

\* from that SipProvider.

\* <li> Send { @link javax.sip.message.Request }'s statelessly.

\* <li> Send { @link javax.sip.message.Response }'s statelessly.

\* <li> Client and Server Transaction creation methods.

\* <li> Listening Point manipulation methods.

\* <li> New CallIdHeader accessor method.

\* <li> SipStack object accessor method.

\* </ul>

\* <p>

\* <b>Architecture:</b><br>

\* This specification defines a many-to-one relationship between a SipProvider

\* and a SipStack, a one-to-many relationship between a SipProvider and a

\* ListeningPoint and a many-to-one relationship between a SipProvider

\* and a SipListener.

\* <p>

\* Each SipProvider can be related to zero or more ListeningPoints. However,

\* the SipProvider can have only one ListeningPoint for each transport type.



\* For example, a single SipProvider can have one TCP ListeningPoint and one UDP ListeningPoint but cannot have two UDP ListeningPoints. Applications that wish to have multiple ListeningPoints with the same transport must use a separate SipProvider for each such ListeningPoint.

<p>

\* The ListeningPoints of the SipProvider specify the local address from where request messages will be sent.

\* When the application sends a request directly from a SipProvider or from an object that the SipProvider created (Dialog or Transaction) the application might not know in advance the transport that this request will use. The transport is often resolved using a DNS server. In the process of sending the request, the remote transport will be resolved. The provider will then be able to send the request from a suitable ListeningPoint according to the resolved transport. If the resolved transport is UDP, the Provider's UDP ListeningPoint will be used. If the resolved address is TCP, the Providers's TCP ListeningPoint will be used.

<p>

\* If the application creates a SipProvider with a single ListeningPoint, let's say UDP, it means that UDP requests will be sent from the specific UDP ListeningPoint, and that the application does not care from where TCP requests will be sent. This is left for the SipStack decision.

<p>

\* Since the transport might not be known in advance, the application might find it difficult to specify the transport in the Via header. The SipProvider is responsible for fixing the Via header transport if needed. If the application set a sent-by identifier to the ListeningPoint that is different then the sent-by parameter in the message, the sent-by parameter of the message will be updated.

<p>

\* If the application created a provider with zero ListeningPoint, it must have only a single SipProvider per SipStack.

<p>

\* A SipProvider has the capability to behave transaction statefully, dialog statefully and statelessly. The transaction stateful methods are defined on the ClientTransaction and ServerTransaction respectfully. The transaction stateful method defined specifically for UAC and stateful proxy applications is:

<ul>

\* <li> { @link ClientTransaction#sendRequest() }

</ul>

<p>

\* The stateful (transactional) convenience method defined specifically for UAS and stateful proxy applications is:

<ul>

\* <li> { @link ServerTransaction#sendResponse(Response) }

</ul>

<p>

\* The dialog stateful methods defined specifically for UAC and stateful

\* proxy applications are:

- \* <ul>
- \* <li> { @link Dialog#sendRequest(ClientTransaction) }
- \* <li> { @link Dialog#sendAck(Request) }
- \* </ul>

\* <p>

\* The stateless methods (non-transactional) defined on the SipProvider are:

- \* <ul>
- \* <li> { @link SipProvider#sendResponse(Response) }
- \* <li> { @link SipProvider#sendRequest(Request) }
- \* </ul>

\* <p>

\* <b>Transaction Model:</b><br>

\* This specification supports stateful and stateless applications on a per message basis, hence transactional semantics are not mandated for all messages. This specification defines two types of transactions, server transactions and client transactions. A stateless proxy does not contain a client or server transaction, stateless proxies are effectively transparent with respect to transactions.

\* <p>

\* Client Transaction:<br>

\* A client transaction exists between a UAC and a UAS specific to Request messages and a server transaction exists between a UAS and a UAC specific to Response messages. A transaction either server or client identifies messages sent between two SIP entities. The purpose of a client transaction is to identify a Request sent by an application that will reliably deliver the Request to a server transaction on the responding SIP entity. The purpose of a server transaction is to identify a Response sent by an application that will reliably deliver the Response to the request initiator.

\* <p>

\* Server Transaction:<br>

\* A new server transaction is required for each response that an application decides to respond to statefully, as follows:

- \* <ul>
- \* <li>Dialog-Creating Requests: A server transaction is not automatically generated by a SipProvider implementation upon receipt of every Dialog-Creating Request i.e. INVITE. Instead the server transaction is set to <code>null</code> in the RequestEvent and the RequestEvent also containing the Request is passed to the application. It is then the responsibility of the application to decide to handle the Dialog-Creating Request statefully or statelessly, using the appropriate send methods on the SipProvider and the ServerTransaction. If a retransmission of the initial Request request is received by the SipProvider the following procedures should be adhered to:
- \* <ul>
- \* <li>Determine if an existing transaction is already handling this Request.

- \* <li>If a transaction exists do not pass the Request to the application via a RequestEvent.
- \* <li>If a transaction doesn't exist pass the retransmitted request to the application as a RequestEvent.

</ul>

- \* <li>Non-Dialog-Creating Requests - When the SipProvider receives a Non-Dialog-Creating Request upon which this application has already responded to the Dialog-Creating Request of the same dialogue the server transaction is automatically placed to the RequestEvent and passed up to the application upon which it can respond. Note that the server transaction may be null in a stateful implementation if the incoming request does not match any dialog but must be part of one. That is for requests that must have state but for which the stack cannot find that state, the application can still handle these requests statelessly. The application cannot create a new server transaction for such requests.

</ul>

<p>

<b>Sending Requests:</b><br>

\* The client side of the transport layer is responsible for sending the request. The application passes the the Request to the ClientTransaction Dialog or the SipProvider that will send the Request over one of the SipProvider's ListeningPoints. The SipProvider will choose a ListeningPoint that has the same transport as the destination. For example, a Request that is going to be sent over TCP will use a TCP ListeningPoint. See section 18.1.1 of <a href = "http://www.ietf.org/rfc/rfc3261.txt">RFC3261</a>.

<p>

<b>Sending Responses:</b><br>

\* The server side of the transport layer is responsible for sending the responses. The application passes the Response to the ServerTransaction or the SipProvider that will send the Response over one of its ListeningPoints. <a href = "http://www.ietf.org/rfc/rfc3261.txt">RFC3261</a>. The response must be sent from the same ListeningPoint on which the request was received.

<p>

<b>Receiving Requests:</b><br>

\* A SipProvider should be prepared to receive requests on any IP address, port and transport encapsulated in one of its ListeningPoints.

\* When the SipProvider receives a request over any transport, it must examine the value of the "sent-by" parameter in the top Via header. If the host portion of the "sent-by" parameter contains a domain name, or if it contains an IP address that differs from the packet source address, the server must add a "received" parameter to that Via header field value. This parameter must contain the source address from which the packet was received. This is to assist the SipProvider in sending the response, since it must be sent to the source IP address from which the request came.

\* Next, the SipProvider attempts to match the request to a server transaction. If there are any server transactions in existence, the server transport uses the matching procedures of Chapter 17 of

\* <a href = "http://www.ietf.org/rfc/rfc3261.txt">RFC3261</a> to attempt to  
\* match the response to an existing transaction. If a matching server  
\* transaction is found, the request is passed to that transaction, encapsulated  
\* into a RequestEvent and fired to the application for processing. If no match  
\* is found, the request is passed to the application, which may decide to  
\* construct a new server transaction for that request.

\* <p>

\* <b>Receiving Responses</b><br>

\* Responses are first processed by the transport layer and then passed  
\* up to the transaction layer. The transaction layer performs its  
\* processing and then passes the response up to the application.  
\* When a response is received, the SipProvider examines the top  
\* Via header. If the value of the "sent-by" parameter in that header field  
\* value does not correspond to a value that the client transport is configured  
\* to insert into requests, the response MUST be silently discarded. If there  
\* are any client transactions in existence, the client transport uses the  
\* matching procedures of Chapter 17 of  
\* <a href = "http://www.ietf.org/rfc/rfc3261.txt">RFC3261</a> to attempt to  
\* match the response to an existing transaction. If there is a  
\* match, the response must be passed to that transaction, encapsulated into a  
\* ResponseEvent and fired to the application. Otherwise, the response is stray  
\* and must be passed to the application to determine its outcome i.e. a proxy  
\* will forward them, while a User Agent will discard.

\*

\* @see SipListener

\* @see SipStack

\*

\* @author BEA Systems, NIST

\* @version 1.2

\*/

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\*

\* Module Name : JSIP Specification

\* File Name : HeaderFactory.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* 1.2 20/12/2005 Jereon Van Bommel Added create methods for PUBLISH headers

\* 1.2 20/12/2006 Phelim O'Doherty Added new createCseqHeader with long sequence number

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/HeaderFactory.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : MinExpiresHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/MinExpiresHeader.java

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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : SipListener.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1  08/10/2002 Phelim O'Doherty
* 1.2  02/15/2005 M. Ranganathan Added method for IO Exception
* 1.2  02/15/2005 M. Ranganathan Added method for TransactionTerminated
*      propagation.
* ~~~~~
*/

```

Found in path(s):

```

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/SipListener.java
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* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : IOExceptionEvent.java
* Author      : M. Ranganathan
*
* HISTORY
* Version Date Author      Comments
* 1.2  05/03/2005 M. Ranganathan Initial version
*
* ~~~~~
*/

```

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/IOExceptionEvent.java  
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 *
 * ~~~~~
 *
 * Module Name   : JSIP Specification
 * File Name     : ReferToHeader.java
 * Author        : Phelim O'Doherty
 *
 * HISTORY
 * Version Date  Author      Comments
 * 1.1  15/04/2003 Phelim O'Doherty Initial version, extension header to
 *                                     support RFC3515
 * ~~~~~
 */
```

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ReferToHeader.java  
No license file was found, but licenses were detected in source scan.

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\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/copyright.html  
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 *

```

```

* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : ReasonHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version, optional header to
*                                     support RFC3326.
* ~~~~~
*/

```

Found in path(s):  
 \* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ReasonHeader.java  
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* ~~~~~

```

```

* Module Name : JSIP Specification
* File Name   : TransactionTerminatedEvent.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.2 03/05/2005 M. Ranganathan New class
* ~~~~~
*/

```

Found in path(s):  
 \* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/TransactionTerminatedEvent.java  
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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : RSeqHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version, optional header to support RFC3262.

\*

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/RSeqHeader.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : RecordRouteHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\*

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-

jar/sip/header/RecordRouteHeader.java

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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : Dialog.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version  Date   Author      Comments
 * 1.1      08/10/2002 Phelim O'Doherty Initial version
 * 1.2      05/04/2005 M. Ranganathan Added Prack Support
 *           Phelim O'Doherty Added createAck method
 *           M. Ranganathan Clarified retransmission behavior.
 * ~~~~~
 */
```

Found in path(s):

`/opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/Dialog.java`

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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : ServerHeader.java
 * Author      : Phelim O'Doherty
 *
 * ~~~~~
```

```
* HISTORY
* Version Date Author Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/
```

Found in path(s):

\*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ServerHeader.java  
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*
* Module Name : JSIP Specification
* File Name : ContactHeader.java
* Author : Phelim O'Doherty
*
* HISTORY
* Version Date Author Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/
```

```
* Module Name : JSIP Specification
* File Name : ContactHeader.java
* Author : Phelim O'Doherty
*
```

```
* HISTORY
* Version Date Author Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/
```

Found in path(s):

\*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ContactHeader.java  
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*
* ~~~~~
*
```

\* Module Name : JSIP Specification  
\* File Name : DialogDoesNotExistException.java  
\* Author : Phelim O'Doherty

\* HISTORY  
\* Version Date Author Comments  
\* 1.2 16/06/2005 Phelim O'Doherty Initial version

~~~~~  
*/

Found in path(s):

*/opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/DialogDoesNotExistException.java

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~~~~~

* Module Name : JSIP Specification
* File Name : AcceptLanguageHeader.java
* Author : Phelim O'Doherty

* HISTORY
* Version Date Author Comments
* 1.1 08/10/2002 Phelim O'Doherty

~~~~~  
\*/

Found in path(s):

\*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/AcceptLanguageHeader.java

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* ~~~~~
*
* Module Name   : JSIP Specification
* File Name    : UnsupportedHeader.java
* Author       : Phelim O'Doherty
*
* HISTORY
* Version Date  Author          Comments
* 1.1   08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):
 */opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/UnsupportedHeader.java
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* ~~~~~
*
* Module Name   : JSIP Specification
* File Name    : SipFactory.java
* Author       : Phelim O'Doherty
*
* HISTORY
* Version Date  Author          Comments
* 1.1   08/10/2002 Phelim O'Doherty
* 1.2   20/12/2005 Phelim O'Doherty Modified to enable single stack
*                                     instance if no IP Address config
*                                     property.
* ~~~~~
*/

```

```

/**
* The SipFactory is a singleton class which applications can use a single
* access point to obtain proprietary implementations of this specification. As

```

* the SipFactory is a singleton class there will only ever be one instance of

* the SipFactory. The single instance of the SipFactory can be obtained using

* the { @link SipFactory#getInstance() } method. If an instance of the SipFactory

* already exists it will be returned to the application, otherwise a new

* instance will be created. A peer implementation object can be obtained from

* the SipFactory by invoking the appropriate create method on the SipFactory

* e.g. to create a peer SipStack, an application would invoke the

* { @link SipFactory#createSipStack(Properties) } method.

* <p>

* Naming Convention

* Note that the SipFactory utilises a naming convention defined by this

* specification to identify the location of proprietary objects that implement

* this specification. The naming convention is defined as follows:

*

* The upper-level package structure referred to by the SipFactory

* with the attribute <var>pathname</var> can be used to differentiate between

* proprietary implementations from different SIP stack vendors. The

* <var>pathname</var> used by each SIP vendor must be the domain name

* assigned to that vendor in reverse order. For example, the pathname used by

* Sun Microsystems's would be <code>com.sun</code>.

* The lower-level package structure and classname of a peer object

* is also mandated by this specification. The lowel-level package must be

* identical to the package structure defined by this specification and the

* classname is mandated to the interface name appended with the

* <code>Impl</code> post-fix. For example, the lower-level package structure

* and classname of a proprietary implementation of the

* <code>javax.sip.SipStack</code> interface must be

* <code>javax.sip.SipStackImpl</code>.

*

*

* Using this naming convention the SipFactory can locate a vendor's

* implementation of this specification without requiring an application to

* supply a user defined string to each create method in the SipFactory. Instead

* an application merely needs to identify the vendors SIP implementation it

* would like to use by setting the pathname of that vendors implementation.

* <p>

* It follows that a proprietary implementation of a peer object of this

* specification can be located at:

* <p>

* <code>'pathname'.lower-level package structure and classname'.</code>

* <p>

* For example an application can use the SipFactory to instantiate a NIST

* peer SipStack object by setting the pathname to

* <code>gov.nist</code> and calling the createSipStack method. The SipFactory

* would return a new instance of the SipStack object at the following location:

* <code>gov.nist.javax.sip.SipStackImpl.java</code> Because the space of

* domain names is managed, this scheme ensures that collisions between two

* different vendor's implementations will not happen. For example: a different

```

* vendor with a domain name 'bea.com' would have their peer SipStack object
* located at <code>com.bea.javax.sip.SipStackImpl.java</code>.
* <p>
* <b>Default Namespace:</b><br>
* This specification defines a default namespace for the SipFactory, this
* namespace is the location of the Reference Implementation. The default
* namespace is <code>gov.nist</code> the author of the Reference
* Implementation, therefore the <var>pathname</var> will have the initial
* value of <code>gov.nist</code> for a new instance of the SipFactory. An
* application must set the <var>pathname</var> of the SipFactory on retrieval
* of a new instance of the factory in order to use a different vendors SIP
* stack from that of the Reference Implementation. An application can not mix
* different vendor's peer implementation objects.
*
* @author BEA Systems, NIST
* @version 1.2
*/

```

Found in path(s):

```

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/SipFactory.java
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* ~~~~~
*
* Module Name   : JSIP Specification
* File Name     : RequireHeader.java
* Author        : Phelim O'Doherty
*
* HISTORY
* Version  Date   Author           Comments
* 1.1    08/10/2002  Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):

```

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/RequireHeader.java
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 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : PeerUnavailableException.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version Date Author      Comments
 * 1.1    08/10/2002 Phelim O'Doherty
 * ~~~~~
 */

```

Found in path(s):

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/PeerUnavailableException.java

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 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : ContentLanguageHeader.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version Date Author      Comments
 * 1.1    08/10/2002 Phelim O'Doherty Initial version
 * ~~~~~
 */

```


Found in path(s):

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ContentLanguageHeader.java

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*

* Module Name : JSIP Specification

* File Name : SipURI.java

* Author : Phelim O'Doherty

*

* HISTORY

* Version Date Author Comments

* 1.1 08/10/2002 Phelim O'Doherty Initial version

* ~~~~~

*/

Found in path(s):

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/address/SipURI.java

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*

* Module Name : JSIP Specification

* File Name : Address.java

* Author : Phelim O'Doherty

*

* HISTORY

```

* Version Date Author Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version
* 1.2 18/05/2005 Phelim O'Doherty Added hashcode method
* ~~~~~
*/

```

Found in path(s):

*/opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/address/Address.java
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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name : ListeningPoint.java
* Author : Phelim O'Doherty
*
* HISTORY
* Version Date Author Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):

*/opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/ListeningPoint.java
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*

```

* Module Name : JSIP Specification

* File Name : Hop.java

* Author : Phelim O'Doherty

*

* HISTORY

* Version Date Author Comments

* 1.1 19/12/2002 Phelim O'Doherty Initial version

~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/address/Hop.java

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\*

\* Module Name : JSIP Specification

\* File Name : ErrorInfoHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

~~~~~

*/

Found in path(s):

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ErrorInfoHeader.java

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\*

\* Module Name : JSIP Specification

\* File Name : ReplyToHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ReplyToHeader.java

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\*

\* Module Name : JSIP Specification

\* File Name : TransactionUnavailableException.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 01/04/2003 Phelim O'Doherty

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-

jar/sip/TransactionUnavailableException.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : ServerTransaction.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/ServerTransaction.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : URI.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/address/URI.java

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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : ToHeader.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version Date Author      Comments
 * 1.1    08/10/2002 Phelim O'Doherty
 * 12/15/2004 M. Ranganathan Added clarification for To header setTag()
 * ~~~~~
 */
```

Found in path(s):

`*/opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ToHeader.java`

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```
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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : TransportNotSupportedException.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version Date Author      Comments
 * 1.1    08/10/2002 Phelim O'Doherty Initial version
```

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/TransportNotSupportedException.java

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\*

\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : WarningHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/WarningHeader.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : ContentDispositionHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ContentDispositionHeader.java

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\*

\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : AuthenticationInfoHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/AuthenticationInfoHeader.java

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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : FromHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1   08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/FromHeader.java  
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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : RetryAfterHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1   08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/RetryAfterHeader.java  
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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : AllowEventsHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 13/12/2002 Phelim O'Doherty Initial version, extension header to
*                                     support RFC3265
* ~~~~~
*/

```

Found in path(s):

```

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-
jar/sip/header/AllowEventsHeader.java
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```

```

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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : ViaHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):

```

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ViaHeader.java

```

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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : CSeqHeader.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version Date Author Comments
 * 1.1 08/10/2002 Phelim O'Doherty
 * 1.2 11/06/2006 Phelim O'Doherty Changed Cseq to type long
 *
 * ~~~~~
 */
```

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/CSeqHeader.java

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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : TransactionState.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version Date Author Comments
```

- \* 1.1 08/10/2002 Phelim O'Doherty Initial version
- \* 1.2 19/05/2005 Phelim O'Doherty Added equals and hashCode method

```
* ~~~~~
*/
```

Found in path(s):

```
* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/TransactionState.java
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```

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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name : SIPETagHeader.java
 * Author : Jeroen van Bommel
 *
 * HISTORY
 * Version Date Author Comments
 * 1.1 27/10/2005 Jeroen van Bommel Initial version, header to support RFC3903.
 * ~~~~~
 */
```

Found in path(s):

```
* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/header/SIPETagHeader.java
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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
```

\* File Name : Parameters.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/Parameters.java

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\*

\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : ProxyRequireHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-

jar/sip/header/ProxyRequireHeader.java

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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : DialogTerminatedEvent.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.2  17/06/2005 Pnelim O'Doherty  New class
*
* ~~~~~
*/
```

Found in path(s):
\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/DialogTerminatedEvent.java
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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : InReplyToHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1  08/10/2002 Phelim O'Doherty  Initial version
*
* ~~~~~
*/
```

Found in path(s):
\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/InReplyToHeader.java
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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : ProviderDoesNotExistException.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 07/07/2005 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/ProviderDoesNotExistException.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : MessageFactory.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* 1.2 11/15/2004 M. Ranganathan Null argument for createSipRequest creates an empty Sip Request

\* Added new method to create a response from a String

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/message/MessageFactory.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : ExtensionHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ExtensionHeader.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : TransactionDoesNotExistException.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments



\* 1.1 08/10/2002 Phelim O'Doherty

\* ~~~~~  
\*/

Found in path(s):

\*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/TransactionDoesNotExistException.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : Timeout.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/Timeout.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : TimeStampHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/TimeStampHeader.java

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\*

\* Module Name : JSIP Specification

\* File Name : Message.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* 1.2 12/15/2004 M. Ranganathan Clarified comment on clone() method

\*

Clarified the getUnrecognizedHeaders() method

\*

Added removeFirst, addFirst, addLast methods

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/message/Message.java

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* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : HeaderAddress.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version
* ~~~~~
*/

```

Found in path(s):  
 \*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/HeaderAddress.java  
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* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : Header.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):  
 \*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/Header.java  
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```

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*

* Module Name : JSIP Specification

* File Name : SipStack.java

* Author : Phelim O'Doherty

*

* HISTORY

* Version Date Author Comments

* 1.1 08/10/2002 Phelim O'Doherty Reworked

* 1.2 19/05/2005 Phelim O'Doherty Added new new config parameters

* Added new createListeningPoint

* method with IP address

* Added start and stop stack methods

* M. Ranganathan Fixed documentation.

*

~~~~~

\*/

/\*\*

\* This interface represents the management interface of a SIP stack  
\* implementing this specification and as such is the interface that defines the  
\* management/architectural view of the SIP stack. It defines the methods  
\* required to represent and provision a proprietary SIP protocol stack.

\* <p>

\* This SipStack interface defines the methods that are be used by an  
\* application implementing the { @link javax.sip.SipListener } interface to  
\* control the architecture and setup of the SIP stack. These methods include:

\* <ul>

\* <li>Creation/deletion of { @link javax.sip.SipProvider }'s that represent  
\* messaging objects that can be used by an application to send

\* { @link javax.sip.message.Request } and { @link javax.sip.message.Response }  
\* messages statelessly or statefully via Client and Server transactions.

\* <li>Creation/deletion of { @link javax.sip.ListeningPoint }'s that represent  
\* different ports and transports that a SipProvider can use to send and receive  
\* messages.

\* </ul>

\* <b>Architecture: </b> <br>

\* This specification mandates a one-to-many relationship between a SipStack  
\* and a SipProvider. There is a one-to-many relationship between a SipStack  
\* and a ListeningPoint.

\* <p>

\* **SipStack Creation** <br>  
 \* An application must create a SipStack by invoking the  
 \* { @link SipFactory#createSipStack(Properties) } method, ensuring the  
 \* { @link SipFactory#setPathName(String) } is set. Following the naming  
 \* convention defined in { @link javax.sip.SipFactory }, the implementation of  
 \* the SipStack interface must be called SipStackImpl. This specification also  
 \* defines a stack configuration mechanism using java.util.Properties, therefore  
 \* this constructor must also accept a properties argument:

```
* <p>  
* <center>public SipStackImpl(Properties properties) { } </center>  
* <p>
```

\* The following table documents the static configuration properties which can  
 \* be set for an implementation of a SipStack. This specification doesn't  
 \* preclude additional values within a configuration properties object if  
 \* understood by the underlying implementation. In order to change these  
 \* properties after a SipStack has been initialized the SipStack must be deleted  
 \* and recreated:

```
* <p>  
* <center><table border="1" bordercolorlight="#FFFFFF"  
* bordercolordark="#000000" width="98%" cellpadding="3" cellspacing="0">
```

```
* <p class="title">  
* </p>  
* <tr bgcolor="#CCCCCC">  
* <th align="left" valign="top">  
* <p class="table">  
* <strong><strong>SipStack Property </strong> </strong></th>  
* <th align="left" valign="top"></a>  
* <p class="table">  
* <strong>Description </strong>  
* </p>  
* </th>  
* </tr>  
*
```

```
* <tr>  
* <td align="left" valign="top">  
* <p class="table">  
* javax.sip.IP_ADDRESS  
* </p>  
* </td>  
* <td align="left" valign="top">  
* <p class="table">  
* <b>Deprecated v1.2.</b> It is recommended in this specification that the IP  
* Address should be set using the enhanced ListeningPoint architecture,  
* therefore this property is no longer mandatory. When this parameter is  
* specified as null, a singleton stack instance will be created and returned  
* by the SipFactory and the IP Address attributes can be managed via the  
* { @link SipStack#createListeningPoint(String, int, String) } method. For  
* backwards compatability if this flag is set the SipFactory will return a new
```

\* SipStack instance each time a SipStack is created with a new IP Address.

\* This configuration parameter will become the default IP address of the

\* SipStack. The SIP Factory will return any any existing instance of SipStack

\* that already exist for this IP Address.

\* </td>

\* </tr>

\* <tr>

\* <td align="left" valign="top">

\* <p class="table">

\* javax.sip.STACK\_NAME

\* </p>

\* </td>

\* <td align="left" valign="top">

\* <p class="table">

\* Sets a user friendly name to identify the underlying stack implementation to

\* the property value i.e. NISTv1.2. The stack name property should contain no

\* spaces. This property is mandatory.

\* </p>

\* </td>

\* </tr>

\* <tr>

\* <td align="left" valign="top">

\* <p class="table">

\* javax.sip.OUTBOUND\_PROXY

\* </p>

\* </td>

\* <td align="left" valign="top">

\* <p class="table">

\* Sets the outbound proxy of the SIP Stack. The format

\* for this string is "ipaddress:port/transport" i.e.

\* 129.1.22.333:5060/UDP. This property is optional.

\* </p>

\* </td>

\* </tr>

\* <tr>

\* <td align="left" valign="top">

\* <p class="table">

\* javax.sip.ROUTER\_PATH

\* </p>

\* </td>

\* <td align="left" valign="top">

\* <p class="table">

\* Sets the fully qualified classpath to the application supplied Router object

\* that determines how to route messages when the stack cannot make a routing

\* decision ( ie. non-sip URIs). In version 1.2 of this specification,

\* out of Dialog SIP URIs are routed by the Routing algorithm defined in RFC 3261

\* which is implemented internally by the stack provided that  
 \* javax.sip.USE\_ROUTER\_FOR\_ALL\_URI is set to false. In this case,  
 \* the installed Router object is consulted for routing decisions pertaining to  
 \* non-SIP URIs. An application defined Router object must implement the javax.sip.Router interface.  
 \* This property is optional.

\* </td>

\* </tr>

\*

\* <tr>

\* <td align="left" valign="top">

\* <p class="table">

\* javax.sip.EXTENSION\_METHODS

\* </p>

\* </td>

\* <td align="left" valign="top">

\* <p class="table">

\* This configuration value informs the underlying implementation of supported  
 \* extension methods that create new dialog's. This list must not include methods  
 \* that are natively supported by this specification such as INVITE, SUBSCRIBE and REFER.

\* This configuration flag should

\* only be used for dialog creating extension methods, other extension methods  
 \* that don't create dialogs can be used using the method parameter on Request  
 \* assuming the implementation understands the method. If more than one method  
 \* is supported in this property each extension should be separated with a colon  
 \* for example "FOO:BAR". This property is optional.

\* </p>

\* </td>

\* </tr>

\*

\* <tr>

\* <td align="left" valign="top">

\* <p class="table">javax.sip.RETRANSMISSION\_FILTER</p>

\* </td>

\* <td align="left" valign="top">

\* <p class="table"><b>Deprecated v1.2.</b> Applications can request

\* retransmission alerts from the

\* { @link ServerTransaction#enableRetransmissionAlerts() }.

\* <p>

\* The default retransmission behaviour of this

\* specification is dependent on the application core and is defined  
 \* as follows:

\* <ul>

\* <li>User Agent Client: Retransmissions of ACK Requests are the  
 \* responsibility of the application. All other retransmissions are  
 \* handled by the SipProvider.

\* <li>User Agent Server: Retransmissions of 1xx, 2xx Responses are the  
 \* responsibility of the application. All other retransmissions are  
 \* handled by the SipProvider.

\* </li>

```

*      <li>Stateful Proxy: As stateful proxies have no Invite
*      transactions all retransmissions are handled by the SipProvider.
*      <li>Stateless Proxy: As stateless proxies are not transactional
*      all retransmissions are the responsibility of the application
*      and will not be handled the SipProvider.
*      </ul>
*      This filter can be viewed as a helper function for User Agents
*      that can be set by an application to prevent the application
*      from handling retransmission of ACK Requests, 1xx and 2xx
*      Responses for INVITE transactions, i.e. the SipProvider will
*      handle the retransmissions. This utility is useful for hiding
*      protocol retransmission semantics from higher level
*      programming environments. The acceptable values are ON/OFF. This
*      property is optional, therefore if not supplied the default is
*      OFF.
* </td>
* </tr>
*
* <tr>
* <td align="left" valign="top">
* <p class="table">
* javax.sip.AUTOMATIC_DIALOG_SUPPORT
* </p>
* </td>
* <td align="left" valign="top">This property specifies the defined values
* 'ON' and 'OFF'. The default value is 'ON'. The default behavior represents a
* common mode of stack operation and allows the construction of simple user
* agents. This property is optional. This is summarized as:</li>
* <ul>
* <li>A dialog gets created on a dialog creating transaction.</li>
* <li> The first response having both a From and a To tag creates the transaction.
* <li>The first 2xx response to the transaction will drive the dialog to the
* CONFIRMED state.</li>
* </ul>
* </ul>
* <blockquote>The ability to turn of dialog support is motivated by dialog free
* servers (such as proxy servers) that do not want to pay the overhead of the
* dialog layer and user agents that may want to create multiple dialogs for a
* single INVITE (as a result of forking by proxy servers). The following
* behavior is defined when the configuration parameter is set to 'OFF'.
* <ul type="circle">
* <li>The application is responsible to create the Dialog if desired.</li>
* <li>The application may create a Dialog and associate it with a response
* (provisional or final) of a dialog creating request.&nbsp;</li>
* </ul>
* </blockquote>
* <b>Since v1.2.</b>
* </td>

```



```

* </tr>
*
* <tr>
* <td align="left" valign="top">
* <p class="table">
* javax.sip.FORKABLE_EVENTS
* </p>
* </td>
* <td align="left" valign="top">
* <p class="table">
* Comma separated list of events for which the implementation should expect forked
* SUBSCRIBE dialogs. Each element of this list must have the syntax packagename.eventname
*
* This configuration parameter is provided in order to support the following behavior ( defined
* in RFC 3265):
*
* Successful SUBSCRIBE requests will normally receive only
* one 200-class response; however, due to forking, the subscription may
* have been accepted by multiple nodes. The subscriber MUST therefore
* be prepared to receive NOTIFY requests with "From:" tags which differ
* from the "To:" tag received in the SUBSCRIBE 200-class response.
*
* If multiple NOTIFY messages are received in different dialogs in
* response to a single SUBSCRIBE message, each dialog represents a
* different destination to which the SUBSCRIBE request was forked.
*
* Each event package MUST specify whether forked SUBSCRIBE requests are
* allowed to install multiple subscriptions.If such behavior is not allowed,
* the first potential dialog-establishing message will create a dialog.
* All subsequent NOTIFY messages which correspond to the SUBSCRIBE message
* (i.e., match "To", "From", "From" header "tag" parameter, "Call-ID", "CSeq", "Event",
* and "Event" header "id" parameter) but which do not match the dialog
* would be rejected with a 481 response. This property is optional.
* <p>
* <b>Since v1.2</b>
* </p>
* </td>
* </tr>
*
* <tr>
* <td align="left" valign="top">
* <p class="table">
* javax.sip.USE_ROUTER_FOR_ALL_URI
* </p>
* </td>
* <td align="left" valign="top">
* <p class="table">
* If set to <it>true</it> then the application installed

```

```

* Router is consulted for ALL routing decisions (ie. both out of dialog SIP and non-SIP request
* URI's -- identical to the behavior supported in v1.1 of this specification). If set to
* <it>>false</it> the user installed router will only be consulted for routing of Non-SIP URIs.
* Implementations may thus provide support for sophisticated operations such as DNS lookup
* for SIP URI's using the procedures defined in RFC 3263
* (support for RFC 3263 is not mandatory for this specification). This property is optional.
* The default value for this parameter is <it>>true</it>.
* <p>
* <b>Since v1.2.</b>
* </td>
* </tr>
*
* </table> </center>
*
* @see SipFactory
* @see SipProvider
*
* @author BEA Systems, NIST
* @version 1.2
*
*/

```

Found in path(s):

```

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/SipStack.java

```

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*
* ~~~~~
*
* Module Name   : JSIP Specification
* File Name     : AddressFactory.java
* Author        : Phelim O'Doherty
*
* HISTORY
* Version  Date   Author           Comments
* 1.1      08/10/2002 Phelim O'Doherty  Initial version
* ~~~~~
*/

```

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/address/AddressFactory.java

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\*

\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : PriorityHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/PriorityHeader.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : AcceptHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* ~~~~~  
\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/AcceptHeader.java  
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\* ~~~~~  
\*  
\* Module Name : JSIP Specification  
\* File Name : ContentTypeHeader.java  
\* Author : Phelim O'Doherty  
\*  
\* HISTORY  
\* Version Date Author Comments  
\* 1.1 08/10/2002 Phelim O'Doherty  
\* ~~~~~  
\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ContentTypeHeader.java  
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\* ~~~~~  
\*  
\* Module Name : JSIP Specification

\* File Name : ClientTransaction.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* 1.2 16/06/2005 Phelim O'Doherty Deprecated createAck method.

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/ClientTransaction.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : SIPIfMatchHeader.java

\* Author : Jeroen van Bommel

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 27/10/2005 Jeroen van Bommel Initial version, header to support RFC3903.

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/SIPIfMatchHeader.java

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```

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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : ProxyAuthenticateHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1  08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):

```

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-
jar/sip/header/ProxyAuthenticateHeader.java
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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : TelURL.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1  08/10/2002 Phelim O'Doherty Initial version
* 1.2  19/05/2005 Phelim O'Doherty Added phone context methods
* ~~~~~
*/

```

Found in path(s):

```

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/address/TelURL.java
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\*

\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : ResponseEvent.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty Initial version

\* 1.2 12/15/2004 M. Ranganathan Added getDialog method

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/ResponseEvent.java

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\*

\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : TransactionAlreadyExistsException.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 20/12/2002 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-

jar/sip/TransactionAlreadyExistsException.java

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\*

\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : UserAgentHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/UserAgentHeader.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : WWWAuthenticateHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments



- \* 1.1 08/10/2002 Phelim O'Doherty
- \* 1.2 13/06/2005 Phelim O'Doherty Deprecated get/set URI parameter

```
* ~~~~~
*/
```

Found in path(s):

```
* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-
jar/sip/header/WWWAuthenticateHeader.java
```

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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : AlertInfoHeader.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version Date Author      Comments
 * 1.1 08/10/2002 Phelim O'Doherty
 * ~~~~~
 */
```

Found in path(s):

```
* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/AlertInfoHeader.java
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 *
 * ~~~~~
 *

```

```
* Module Name : JSIP Specification
* File Name   : MimeVersionHeader.java
* Author      : Phelim O'Doherty
*
```

```
* HISTORY
```

```
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version
```

```
* ~~~~~
*/
```

Found in path(s):

`/opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/MimeVersionHeader.java`

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*
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* ~~~~~
```

```
*
```

```
* Module Name : JSIP Specification
```

```
* File Name   : ContentEncodingHeader.java
```

```
* Author      : Phelim O'Doherty
```

```
*
```

```
* HISTORY
```

```
* Version Date Author      Comments
```

```
* 1.1 08/10/2002 Phelim O'Doherty
```

```
* ~~~~~
```

```
*/
```

Found in path(s):

`/opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ContentEncodingHeader.java`

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```

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```

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```
*
```

```

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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : AcceptEncodingHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):  
 \*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/AcceptEncodingHeader.java  
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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : SupportedHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial Version
* ~~~~~
*/

```

Found in path(s):  
 \*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/SupportedHeader.java  
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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : MaxForwardsHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):

```

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-
jar/sip/header/MaxForwardsHeader.java

```

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* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : CallInfoHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version
* ~~~~~
*/

```

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/CallInfoHeader.java

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : SubscriptionStateHeader.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 13/12/2002 Phelim O'Doherty Initial version, extension header to

\*

support RFC3265

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-

jar/sip/header/SubscriptionStateHeader.java

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\*

\* Module Name : JSIP Specification

\* File Name : TooManyHopsException.java

\* Author : Phelim O'Doherty

\*

```
* HISTORY
* Version Date Author Comments
* 1.1 20/12/2002 Phelim O'Doherty Initial version
* ~~~~~
*/
```

Found in path(s):

```
*/opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-
jar/sip/header/TooManyHopsException.java
```

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```

```
* Module Name : JSIP Specification
* File Name : DateHeader.java
* Author : Phelim O'Doherty
```

```
* HISTORY
* Version Date Author Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/
```

Found in path(s):

```
*/opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/DateHeader.java
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```

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```

```

*
* Module Name : JSIP Specification
* File Name   : RAckHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version, optional header to
*                               support RFC3262.
* ~~~~~
*/

```

Found in path(s):

/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/RAckHeader.java  
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*

```

```

* Module Name : JSIP Specification
* File Name   : ExpiresHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):

/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/ExpiresHeader.java  
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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : SubjectHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):  
 \*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/SubjectHeader.java  
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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : AllowHeader.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1 08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):  
 \*/opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/AllowHeader.java  
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```

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\* ~~~~~

\*

\* Module Name : JSIP Specification

\* File Name : TransportAlreadySupportedException.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.2 15/08/2005 Phelim O'Doherty Initial version

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/TransportAlreadySupportedException.java

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\*

\* Module Name : JSIP Specification

\* File Name : InvalidArgumentException.java

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

\* ~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-

jar/sip/InvalidArgumentException.java

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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : Router.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version  Date   Author      Comments
 * 1.1     19/12/2002 Phelim O'Doherty Initial version
 * 1.2     16/06/2005 Phelim O'Doherty Deprecated getNextHops and replaced
 *                                     with getNextHop.
 * M. Ranganathan   Worked out details and clarified behavior.
 * Sarit Galanos
 * Jeroen van Bommel
 * ~~~~~
 */
```

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/address/Router.java

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 *
 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : Encoding.java
```

\* Author : Phelim O'Doherty

\*

\* HISTORY

\* Version Date Author Comments

\* 1.1 08/10/2002 Phelim O'Doherty

~~~~~

*/

Found in path(s):

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/Encoding.java

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*

* Module Name : JSIP Specification

* File Name : RequestEvent.java

* Author : Phelim O'Doherty

*

* HISTORY

* Version Date Author Comments

* 1.1 08/10/2002 Phelim O'Doherty Initial version

* 1.2 02/15/2005 M. Ranganathan getDialog get the current

* dialog.

~~~~~

\*/

Found in path(s):

\* /opt/cola/permits/1256060690\_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/RequestEvent.java

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*
* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : Transaction.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1  08/10/2002 Phelim O'Doherty Initial version
* 1.2  12/15/2004 M. Ranganathan Clarified behavior of getDialog when
*           Phelim O'Doherty AUTOMATIC_DIALOG_SUPPORT is set to off.
*           Added two methods - set/getApplicationData
*           Added terminate method.
* ~~~~~
*/

```

Found in path(s):
 */opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/Transaction.java
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* ~~~~~
*
* Module Name : JSIP Specification
* File Name   : MediaType.java
* Author      : Phelim O'Doherty
*
* HISTORY
* Version Date Author      Comments
* 1.1  08/10/2002 Phelim O'Doherty
* ~~~~~
*/

```

Found in path(s):
 */opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/MediaType.java
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 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : ProxyAuthorizationHeader.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version Date Author      Comments
 * 1.1    08/10/2002 Phelim O'Doherty
 * ~~~~~
 */

```

Found in path(s):

```

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-
jar/sip/header/ProxyAuthorizationHeader.java

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 * ~~~~~
 *
 * Module Name : JSIP Specification
 * File Name   : EventHeader.java
 * Author      : Phelim O'Doherty
 *
 * HISTORY
 * Version Date Author      Comments
 * 1.1    13/12/2002 Phelim O'Doherty Initial version, extension header to
 *                               support RFC3265
 * ~~~~~

```

*/

Found in path(s):

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/header/EventHeader.java
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* ~~~~~
*
* Module Name : JSIP Specification
* File Name : ObjectInUseException.java
* Author : Phelim O'Doherty
*
* HISTORY
* Version Date Author Comments
* 1.1 08/10/2002 Phelim O'Doherty Initial version
* ~~~~~
*/

Found in path(s):

* /opt/cola/permits/1256060690_1646678993.07/0/jain-sip-api-1-2-sources-2-jar/sip/ObjectInUseException.java

1.252 netty-handler 4.1.69.Final

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- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslContext.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java

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Found in path(s):

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/META-INF/maven/io.netty/netty-handler/pom.xml

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- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/address/package-info.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java

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- * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java

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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/flow/FlowControlHandler.java

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```
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
```

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jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
```

```
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
```

```
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io/netty/handler/traffic/package-info.java
```

```
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io/netty/handler/traffic/TrafficCounter.java
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```
// Try the OpenJDK's proprietary implementation.
```

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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/Ciphers.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslContextOption.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslProtocols.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java

* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java

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image/io.netty.handler.native-image.properties
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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io.netty.handler.ssl.util/X509TrustManagerWrapper.java
```

```
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io.netty.handler.ssl.ReferenceCountedOpenSslContext.java
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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io.netty.handler.flush/package-info.java
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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io.netty.handler.ssl.ReferenceCountedOpenSslServerContext.java
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```
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io.netty.handler.ssl.PemEncoded.java
```

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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io.netty.handler.ssl.PemX509Certificate.java
```

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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io.netty.handler.ssl.ReferenceCountedOpenSslClientContext.java
```

```
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io.netty.handler.ssl.OpenSslKeyMaterialManager.java
```

```
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-  
jar/io.netty.handler.flush.FlushConsolidationHandler.java
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```
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
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jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/Java8SslUtils.java
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jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNames.java
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jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/SniCompletionEvent.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/ocsp/package-info.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/SslClientHelloHandler.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/OptionalSslHandler.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/SslCompletionEvent.java
 * /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
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jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/pcap/IPPacket.java

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jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-
jar/io/netty/handler/timeout/TimeoutException.java

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* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1265673641_1643932611.53/0/netty-handler-4-1-69-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java

1.253 asm-util 7.1

1.253.1 Available under license :

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- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/CheckMethodAdapter.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceFieldVisitor.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/Printer.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/CheckModuleAdapter.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/Textifier.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceModuleVisitor.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/ASMifier.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/TraceClassVisitor.java
- * /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/CheckClassAdapter.java

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jar/org/objectweb/asm/util/ASMifierSupport.java

* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-

```
jar/org/objectweb/asm/util/Textifiable.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/ASMifiable.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
jar/org/objectweb/asm/util/TextifierSupport.java
```

1.254 logging-interceptor 3.14.9

1.254.1 Available under license :

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* /opt/cola/permits/1199746110_1630577833.08/0/logging-interceptor-3-14-9-sources-1-
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* /opt/cola/permits/1199746110_1630577833.08/0/logging-interceptor-3-14-9-sources-1-jar/okhttp3/logging/LoggingEventListener.java

1.255 jldap 2013.08.30.1433

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1.256 jul-to-slf4j 1.7.32

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```

1.257 jnr-x86asm 1.0.2

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1.258 spring-security-jwt 1.0.10.RELEASE

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* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/JwtHelper.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/crypto/sign/Signer.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/JwtAlgorithms.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/crypto/sign/RsaKeyHelper.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
```

```
jar/org/springframework/security/jwt/crypto/sign/SignerVerifier.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/crypto/sign/RsaVerifier.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/crypto/sign/MacSigner.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/Jwt.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/crypto/cipher/CipherMetadata.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/crypto/sign/InvalidSignatureException.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/codec/Codecs.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/AlgorithmMetadata.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/BinaryFormat.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/crypto/sign/RsaSigner.java
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/crypto/sign/SignatureVerifier.java
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```
/**
 * Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
 * See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
 *
 * @author Luke Taylor
 */
```

```
Found in path(s):
* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-
jar/org/springframework/security/jwt/codec/Base64Codec.java
No license file was found, but licenses were detected in source scan.
```

```
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*/

Found in path(s):

* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-jar/org/springframework/security/jwt/crypto/sign/EllipticCurveKeyHelper.java

* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-jar/org/springframework/security/jwt/crypto/sign/EllipticCurveSignatureHelper.java

* /opt/cola/permits/1136823312_1613930815.78/0/spring-security-jwt-1-0-10-release-sources-1-jar/org/springframework/security/jwt/crypto/sign/EllipticCurveVerifier.java

1.259 bouncy-castle 1.68

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1.260 nimbus-jose-jwt 8.20

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```
*/opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/crypto/factories/DefaultJWSSignerFactory.java
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```

```
jar/com/nimbusds/jose/crypto/Ed25519Verifier.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/crypto/Ed25519Signer.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/util/Base64Codec.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/jwk/JWKSet.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/crypto/X25519Decrypter.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/crypto/impl/ECDHCryptoProvider.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/RSASSA.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/CriticalHeaderParamsDeferral.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/HMAC.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/PBKDF2.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/JWKException.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/BoundedInputStream.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/Container.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/RSA1_5.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/ECDSAProvider.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/package-info.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/PEMEncodedKeyParser.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/AlgorithmParametersHelper.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/DirectCryptoProvider.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/source/JWKSetCache.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/DefaultJOSEObjectTypeVerifier.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/RSASSAProvider.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/KeyUtils.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/Curve.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/AESGCMKW.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-

jar/com/nimbusds/jose/crypto/impl/ContentCryptoProvider.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-

jar/com/nimbusds/jose/util/IntegerOverflowException.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/gen/RSAPublicKeyGenerator.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/CipherHelper.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/RSACryptoProvider.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/PasswordBasedCryptoProvider.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/DeflateHelper.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/AAD.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/AESGCM.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/source/DefaultJWKSetCache.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/LegacyAESGCM.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/proc/JWTClaimsSetAwareJWSKeySelector.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/IOUtils.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/package-info.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/AESKW.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/ECDSA.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/OctetKeyPair.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/impl/LegacyConcatKDF.java

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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/META-INF/maven/com.nimbusds/nimbus-jose-jwt/pom.xml

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```
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 * nimbus-jose-jwt
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```
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/proc/JWSAlgorithmFamilyJWSKeySelector.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jwt/proc/DefaultJWTProcessor.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/proc/DefaultJOSEProcessor.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/proc/JWSVerificationKeySelector.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/proc/JWEDecryptionKeySelector.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/proc/JOSEProcessorConfiguration.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/crypto/ECDHEncrypter.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-
jar/com/nimbusds/jose/jwk/JWKMatcher.java
```

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```
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 * nimbus-jose-jwt
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- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/AESDecrypter.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/source/JWKSource.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/JWSProvider.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/ECPParameterTable.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/SecretJWK.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/JWSVerifierFactory.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/X509CertUtils.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/KeyTypeException.java
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- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/util/package-info.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/JWTClaimsSet.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/PlainObject.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/proc/JWTProcessorConfiguration.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/JWEKeySelector.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/KeyException.java
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- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/DirectEncrypter.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/JWKMetadata.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/SecurityContext.java
- * /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/JWSKeySelector.java

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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/X509CertChainUtils.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/package-info.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/ByteUtils.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/StandardCharset.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/Header.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/PayloadTransformer.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/JOSEProcessor.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/JWKSelector.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/JWSSigner.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/RSAEncrypter.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/JSONObjectUtils.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/KeyConverter.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/MACVerifier.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/PlainJWT.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/PlainHeader.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/DeflateUtils.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/factories/package-info.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/MACSigner.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/IntegerUtils.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/BadJWEException.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jca/package-info.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/package-info.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/source/ImmutableJWKSet.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/proc/JWTProcessor.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/proc/ClockSkewAware.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/JWSVerifier.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/ConfigurableJOSEProcessor.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/proc/JWTClaimsVerifier.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/SignedJWT.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/AsymmetricJWK.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/JWK.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/JWTClaimsSetTransformer.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/DateUtils.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/ResourceRetriever.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/PasswordBasedEncrypter.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/bc/BouncyCastleProviderSingleton.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/CriticalHeaderParamsAware.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/proc/ConfigurableJWTProcessor.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/package-info.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/ArrayUtils.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/package-info.java
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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/Resource.java

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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/EncryptionMethod.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/BigIntegerUtils.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jca/JWEJCAContext.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/JWEHeader.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/proc/package-info.java

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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/AbstractRestrictedResourceRetriever.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/Payload.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/source/RemoteJWKSet.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/ECDSAVerifier.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/DirectDecrypter.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/proc/JWTClaimsSetVerifier.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/ECDHDecrypter.java

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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/JOSEMatcher.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/CommonSEHeader.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/ECKey.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/proc/DefaultJWTClaimsVerifier.java

* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/KeySourceException.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/JOSEException.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/JWEDecrypterFactory.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/DefaultResourceRetriever.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/JOSEProvider.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/JWT.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/proc/BadJOSEException.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/JWSAlgorithm.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/OctetSequenceKey.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/util/Base64URL.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/RSASSASigner.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/KeyUse.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/KeyType.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jwt/JWTParser.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/JWEProvider.java
* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/crypto/RSASSAVerifier.java

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* /opt/cola/permits/1136874914_1613969023.23/0/nimbus-jose-jwt-8-20-sources-1-jar/com/nimbusds/jose/jwk/gen/OctetKeyPairGenerator.java

1.261 kafka-clients 2.7.1

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1.262 spring-javaconfig 1.0.0.m3

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* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
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* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/enhancement/cglib/package-info.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/annotation/ExternalValue.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/naming/ChainedStrategy.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/process/ConfigurationListenerSupport.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/annotation/ResourceBundles.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/annotation/aop/targetsource/HotSwappable.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/core/BeanMethodReturnValueProcessor.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/process/ProcessUtils.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/valuesource/CompositeValueSource.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/annotation/ExternalBean.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/process/package-info.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-

jar/org/springframework/config/java/enhancement/package-info.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/core/Constants.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/enhancement/cglib/ScopedProxyBeanMethodMethodInterceptor.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/context/JavaConfigApplicationContext.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/process/ConfigurationPostProcessor.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/enhancement/cglib/ExternalBeanMethodMethodInterceptor.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/process/ConfigurationListenerRegistry.java
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jar/org/springframework/config/java/process/ResourceBundlesConfigurationListener.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/valuesource/ValueSource.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
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jar/org/springframework/config/java/process/AutoBeanConfigurationListener.java
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* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
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jar/org/springframework/config/java/support/package-info.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/valuesource/package-info.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/valuesource/MessageSourceValueSource.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
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* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
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jar/org/springframework/config/java/valuesource/ValueResolutionException.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/naming/MethodNameStrategy.java
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jar/org/springframework/config/java/core/package-info.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/context/AmbiguousBeanLookupException.java
* /opt/cola/permits/1257811092_1643017729.87/0/spring-javaconfig-1-0-0-m3-sources-
jar/org/springframework/config/java/core/AutoBeanMethodProcessor.java

1.263 aop-alliance 5.3.12

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1.264 zookeeper 3.5.5

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- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/intellij/lang/annotations/Subst.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/Nls.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/VisibleForTesting.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/NonNls.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/intellij/lang/annotations/JdkConstants.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/Range.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/PropertyKey.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/NotNull.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/intellij/lang/annotations/MagicConstant.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/intellij/lang/annotations/RegExp.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/Async.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/TestOnly.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/MustBeInvokedByOverriders.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/intellij/lang/annotations/Flow.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/intellij/lang/annotations/Identifier.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/intellij/lang/annotations/Language.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/UnmodifiableView.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-jar/org/jetbrains/annotations/Unmodifiable.java
- * /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-

```
jar/org/jetbrains/annotations/Nullable.java
* /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-
jar/org/jetbrains/annotations/Debug.java
* /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-
jar/org/intellij/lang/annotations/PrintFormat.java
* /opt/cola/permits/1103213823_1604039616.52/0/annotations-20-1-0-sources-
jar/org/intellij/lang/annotations/Pattern.java
```

1.266 hdrhistogram 2.1.12

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```

Found in path(s):

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/WriterReaderPhaser.java
```

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```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoublePercentileIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/ZigZagEncoding.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/AllValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/Base64Helper.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/PackedConcurrentDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/SynchronizedHistogram.java
```

* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/packedarray/PackedArraySingleWriterRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Histogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/RecordedValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/LinearIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramIterationValue.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogReader.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleHistogramIterationValue.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedConcurrentHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleAllValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-

```
jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/ShortCountsHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/EncodableHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/HistogramLogScanner.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/packedarray/PackedArrayRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/ConcurrentHistogram.java
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```
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*
* @author Gil Tene
*/
```

Found in path(s):

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/AbstractHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleHistogram.java
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```

```
/*
* package-info.java
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*/
```

Found in path(s):

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/package-
info.java
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```
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*
* @author Gil Tene
*/
```

```
package org.HdrHistogram;
```

```
final class Version {
```



```
public static final String version="$VERSION$";
public static final String build_time="$BUILD_TIME$";
}
```

Found in path(s):

* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java.template

1.267 commons-beanutils 1.9.4

1.267.1 Available under license :

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1.268 commons-validator 1.6

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1.269 spring-security-rsa 1.0.10.RELEASE

1.269.1 Available under license :

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* /opt/cola/permits/1194032573_1629399100.85/0/spring-security-rsa-1-0-10-release-jar/META-INF/maven/org.springframework.security/spring-security-rsa/pom.xml

1.270 reflections 0.9.11

1.270.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1000000666_1646171445.29/0/reflections-0-9-11-sources-jar/META-INF/maven/org.reflections/reflections/pom.xml

1.271 aws-java-sdk-core 1.11.415

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-

jar/com/amazonaws/internal/CustomBackoffStrategy.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/internal/EC2MetadataClient.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/http/IdleConnectionReaper.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/HandlerContextAware.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/DefaultAWSCredentialsProviderChain.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/internal/DynamoDBBackoffStrategy.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/EnvironmentVariableCredentialsProvider.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/InstanceProfileCredentialsProvider.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/AWSCredentialsProviderChain.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/internal/CRC32MismatchException.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/SystemPropertiesCredentialsProvider.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/util/AwsHostNameUtils.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/handlers/AsyncHandler.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/config/JsonIndex.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/Protocol.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/config/SignerConfigJsonHelper.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/ImmutableMapParameter.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/config/SignerConfig.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/config/Builder.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/annotation/Beta.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/annotation/NotThreadSafe.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/annotation/Immutable.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/annotation/SdkTestInternalApi.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/annotation/ThreadSafe.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/annotation/SdkInternalApi.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/annotation/SdkProtectedApi.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/ReleasableInputStream.java

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- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/EC2CredentialsUtils.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/EC2CredentialsFetcher.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryPolicy.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/ContainerCredentialsRetryPolicy.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/ContainerCredentialsProvider.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/CredentialsEndpointProvider.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryParameters.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/EndpointPrefixAwareSigner.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/EC2ContainerCredentialsProviderWrapper.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/partitions/PartitionsLoader.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/RegionMetadataFactory.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/apache/client/impl/CRC32ChecksumResponseInterceptor.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/RegionImpl.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/protocol/json/SdkIonGenerator.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/RegionMetadataProvider.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/partitions/model/CredentialScope.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/InMemoryRegionImpl.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/AbstractRegionMetadataProvider.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/partitions/PartitionRegionImpl.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/partitions/model/Service.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/LegacyRegionXmlMetadataBuilder.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/partitions/model/Region.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/partitions/PartitionMetadataProvider.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/protocol/json/SdkStructuredIonFactory.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/InMemoryRegionsProvider.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/partitions/model/Partition.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/transform/SimpleTypeCborUnmarshallers.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/AWS4Signer.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkDigestInputStream.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/AbortedException.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/EC2MetadataUtils.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/CodecUtils.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/MetricAware.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkFilterInputStream.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/IOUtils.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/jmx/MBeans.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkBufferedInputStream.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/SdkRuntime.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/EncodingScheme.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/RegionMetadataParser.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/RegionAwareSigner.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/Region.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkFilterOutputStream.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/ListWithAutoConstructFlag.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/Base64.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/regions/RegionUtils.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/ServiceAwareSigner.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/Base64Codec.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/Base16.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/HttpClientWrappingInputStream.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/EncodingSchemeEnum.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/ResetException.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/jmx/SdkMBeanRegistrySupport.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/AbstractBase32Codec.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/MetricsInputStream.java

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jar/com/amazonaws/regions/Regions.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/regions/ServiceAbbreviations.java
```

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jar/com/amazonaws/internal/SdkIOUtils.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/ReadLimitInfo.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/internal/http/JsonErrorMessageParser.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/util/ValidationUtils.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/PredefinedClientConfigurations.java
```

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/DelegateInputStream.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTaskImpl.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/JsonErrorResponseHandler.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkThreadLocalsRegistry.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTracker.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTrackerTask.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskImpl.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/conn/SdkConnectionKeepAliveStrategy.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestTimer.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/SdkHttpUtils.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/JavaVersionParser.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/Base16Lower.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionTimeoutException.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/log/CommonsLogFactory.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTask.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/handlers/HandlerContextKey.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/NumberUtils.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkSSLMetricsSocket.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/client/NoOpClientExecutionAbortTrackerTask.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/SdkThreadLocals.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/SystemDefaultDnsResolver.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/log/JulLog.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/handlers/StackedRequestHandler.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionTimer.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/DnsResolver.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkInternalList.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTrackerTaskImpl.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/TimeoutThreadPoolBuilder.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/log/CommonsLog.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/log/InternalLog.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/ComparableUtils.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/log/JulLogFactory.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkInternalMap.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/exception/HttpRequestTimeoutException.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTrackerImpl.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/client/ConnectionManagerFactory.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/client/HttpClientFactory.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/UriResourcePathUtils.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/settings/HttpClientSettings.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/DelegateSocket.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkMetricsSocket.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/SDKGlobalTime.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/DelegatingDnsResolver.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/transform/JsonErrorUnmarshaller.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/request/NoOpHttpRequestAbortTaskTracker.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/conn/ssl/privileged/PrivilegedMasterSecretValidator.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/conn/ssl/MasterSecretValidators.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/SignableRequest.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestAbortTask.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/http/JsonErrorCodeParser.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/BasicSessionCredentials.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/RequestClientOptions.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/jmx/spi/JmxInfoProvider.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/jmx/JmxInfoProviderSupport.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/AWSSessionCredentials.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/ClassLoaderHelper.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/jmx/spi/SdkMBeanRegistry.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/metrics/MetricAdmin.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/ServiceClientHolderInputStream.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/metrics/MetricAdminMBean.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/util/NameValuePair.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/util/URLEncodedUtils.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/CanHandleNullCredentials.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/apache/client/impl/ApacheConnectionFactory.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/apache/request/impl/ApacheHttpRequestFactory.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/apache/client/impl/ApacheHttpClientFactory.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/log/InternalLogFactory.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/handlers/IRequestHandler2.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/apache/client/impl/ConnectionFactoryAwareHttpClient.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/DateTimeJsonSerializer.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/timers/package-info.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/FakeIOException.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/protocol/json/SdkStructuredJsonFactory.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/CapacityManager.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/apache/utils/ApacheUtils.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/conn/ssl/ShouldClearSslSessionPredicate.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/apache/client/impl/SdkHttpClient.java

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*/
/**

* Interface for providing AWS credentials. Implementations are free to use any
* strategy for providing AWS credentials, such as simply providing static
* credentials that don't change, or more complicated implementations, such as
* integrating with existing key management systems.

*/

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*/

/**

* Interface for providing AWS region information. Implementations are free to use any strategy for
* providing region information.

*/

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jar/com/amazonaws/http/conn/ssl/TLSProtocol.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/http/conn/ssl/SdkTLSSocketFactory.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/SignerAsRequestSigner.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/ImmutableRequest.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/RequestSigner.java

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- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/profile/ProfilesConfigFileWriter.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/BoundedLinkedHashMap.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/internal/SignerKey.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/UnreliableFilterInputStream.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/internal/AWS4SignerUtils.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/profile/ProfilesConfigFile.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/Releasable.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkInputStream.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/profile/internal/AbstractProfilesConfigFileScanner.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/event/DeliveryMode.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/profile/internal/securitytoken/STSPProfileCredentialsServiceProvider.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/event/SDKProgressPublisher.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/event/RequestProgressInputStream.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/profile/internal/Profile.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/event/ResponseProgressInputStream.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/event/ProgressEventFilter.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/event/ProgressTracker.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/UnreliableTestConfig.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/event/ProgressInputStream.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkSSLSocket.java
- * /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-

jar/com/amazonaws/auth/profile/internal/BasicProfileConfigLoader.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/profile/internal/securitytoken/ProfileCredentialsService.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/profile/ProfileCredentialsProvider.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/profile/internal/securitytoken/STSPProfileCredentialsServiceLoader.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/event/SyncProgressListener.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/internal/SignerConstants.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/internal/FIFOCache.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/internal/SdkSocket.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/internal/DelegateSSLSocket.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/event/request/Progress.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/internal/AWS4SignerRequestParams.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/event/request/ProgressSupport.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/profile/package-info.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/profile/internal/securitytoken/RoleInfo.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/util/LengthCheckInputStream.java
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jar/com/amazonaws/auth/AWSCredentials.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/SigningAlgorithm.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/auth/SignatureVersion.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/AmazonClientException.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/transform/SimpleTypeUnmarshallers.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/http/HttpMethodName.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/util/XmlUtils.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/transform/LegacyErrorUnmarshaller.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/transform/VoidUnmarshaller.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/transform/Unmarshaller.java

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jar/com/amazonaws/http/JsonResponseHandler.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/protocol/json/SdkCborGenerator.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/protocol/json/SdkStructuredPlainJsonFactory.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/protocol/json/SdkStructuredCborFactory.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-

jar/com/amazonaws/protocol/json/SdkJsonProtocolFactory.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/protocol/json/StructuredJsonGenerator.java
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jar/com/amazonaws/internal/http/CompositeErrorCodeParser.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/internal/http/ErrorCodeParser.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/internal/http/IonErrorCodeParser.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/JodaTime.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/waiters/WaiterExecutionBuilder.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/metrics/AwsSdkMetrics.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/retry/PredefinedRetryPolicies.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/monitoring/CsmConfiguration.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/AwsClientSideMonitoringMetrics.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/HttpMethod.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/impl/client/SdkHttpRequestRetryHandler.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/handlers/HandlerAfterAttemptContext.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/Signer.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/conn/Wrapped.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/HttpResponse.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/apache/request/impl/HttpGetWithBody.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/AWSRequestMetricsFullSupport.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/waiters/WaiterHandler.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/policy/conditions/NumericCondition.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/endpointdiscovery/DefaultEndpointDiscoveryProviderChain.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/monitoring/MonitoringListener.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/policy/resources/package-info.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/waiters/HttpSuccessStatusAcceptor.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/ResponseMetadataCache.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/monitoring/CsmConfigurationProvider.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/BasicAWSCredentials.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/handlers/RequestHandler.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/waiters/SdkFunction.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/IdentityEndpointBuilder.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/transform/JsonUnmarshallerContext.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/policy/Policy.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/transform/MapEntry.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/metrics/package-info.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/ServiceNameFactory.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/metrics/ByteThroughputProvider.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/http/RepeatableInputStreamRequestEntity.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/SdkPredicate.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/VersionInfoUtils.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/ProxyAuthenticationMethod.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/handlers/RequestHandler2.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/auth/policy/PolicyReaderOptions.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/transform/SimpleTypeStaxUnmarshallers.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/transform/VoidJsonUnmarshaller.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/waiters/PollingStrategyContext.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/handlers/AbstractRequestHandler.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/waiters/NoOpWaiterHandler.java

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jar/com/amazonaws/log/InternalLogApi.java

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jar/com/amazonaws/protocol/json/JsonFactory.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/protocol/json/JsonParser.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/transform/SimpleTypeJsonUnmarshallers.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/adapters/types/TypeAdapter.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/NullResponseMetadataCache.java

* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/internal/auth/SignerProvider.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/adapters/types/StringToByteBufferAdapter.java
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/AmazonWebServiceResult.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/protocol/json/internal/MarshallerRegistry.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/client/builder/ExecutorFactory.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/internal/AmazonWebServiceRequestAdapter.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/protocol/json/JsonContent.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/http/SdkHttpMetadata.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/retry/v2/BackoffStrategy.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-
jar/com/amazonaws/protocol/DefaultValueSupplier.java

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* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/DateUtils.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/Classes.java
* /opt/cola/permits/1136061426_1613670290.05/0/aws-java-sdk-core-1-11-415-sources-1-jar/com/amazonaws/util/BinaryUtils.java

1.272 jackson 2.13.0

1.272.1 Available under license :

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1.273 activation-api 1.2.2

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1.274 spring-cloud-context 3.0.4

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* /opt/cola/permits/1222421586_1635579139.26/0/spring-cloud-context-3-0-4-jar/META-INF/maven/org.springframework.cloud/spring-cloud-context/pom.xml

1.275 converter-moshi 2.9.0

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- * /opt/cola/permits/1125278247_1611280592.09/0/converter-moshi-2-9-0-sources-jar/retrofit2/converter/moshi/MoshiResponseBodyConverter.java
- * /opt/cola/permits/1125278247_1611280592.09/0/converter-moshi-2-9-0-sources-jar/retrofit2/converter/moshi/MoshiConverterFactory.java
- * /opt/cola/permits/1125278247_1611280592.09/0/converter-moshi-2-9-0-sources-jar/retrofit2/converter/moshi/MoshiRequestBodyConverter.java

1.276 oro 2.0.7

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Daniel Savarese <dfs at savarese.org> is the original author of the OROMatcher, PerlTools, AwkTools, and TextTools packages that became the Jakarta-ORO project.

Jon Stevens <jon at collab.net> helped prepare the first release of jakarta-oro and is a constant help in keeping the project consistent with the Jakarta project as a whole.

Takashi Okamoto <tokamoto at rd.nttdata.co.jp> has contributed a unicode character class fix and an initial posix character class implementation.

Mark Murphy <markm at tyrell.com> has contributed performance improvements to Perl5Substitution as well as adding support for \UuLIE and escaping of \$.

Michael Davey <michael.davey at coderage.org> fixed some documentation and added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated MatchActionProcessor.processMatches() to accommodate character encodings.

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1.277 kafka-avro-serializer 5.3.0

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<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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<modelVersion>4.0.0</modelVersion>
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<parent>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-registry-parent</artifactId>
  <version>5.3.0</version>
</parent>
```

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    <distribution>repo</distribution>
  </license>
</licenses>
```

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<packaging>jar</packaging>
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```

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    <artifactId>kafka_${kafka.scala.version}</artifactId>
    <scope>provided</scope>
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    <groupId>org.apache.avro</groupId>
    <artifactId>avro</artifactId>
```



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</dependency>
<dependency>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-registry-client</artifactId>
</dependency>
<dependency>
  <groupId>io.confluent</groupId>
  <artifactId>common-config</artifactId>
</dependency>

<dependency>
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  <artifactId>junit</artifactId>
  <scope>test</scope>
</dependency>
</dependencies>

<build>
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    <plugin>
      <groupId>org.apache.avro</groupId>
      <artifactId>avro-maven-plugin</artifactId>
      <executions>
        <execution>
          <phase>generate-sources</phase>
          <goals>
            <goal>schema</goal>
          </goals>
          <configuration>
            <testSourceDirectory>${project.basedir}/src/test/avro</testSourceDirectory>
          </configuration>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>
</project>

```

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* /opt/cola/permits/1257811414_1646341487.01/0/kafka-avro-serializer-5-3-0-jar/META-INF/maven/io.confluent/kafka-avro-serializer/pom.xml

1.278 swagger-core 1.5.21

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* /opt/ws_local/PERMITS_SQL/1001452981_1591661276.22/0/swagger-core-1-5-21-jar/META-INF/MANIFEST.MF

1.279 javax-persistence-api 2.2

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* /opt/cola/permits/1195818461_1629833729.3/0/jul-to-slf4j-1-7-32-sources-
jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.281 netty-codec-smtp 4.1.69.Final

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* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-
jar/io/netty/handler/codec/smtp/SmtpContent.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-
jar/io/netty/handler/codec/smtp/package-info.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-
jar/io/netty/handler/codec/smtp/DefaultSmtpRequest.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-
jar/io/netty/handler/codec/smtp/LastSmtpContent.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-
jar/io/netty/handler/codec/smtp/SmtpUtils.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-
jar/io/netty/handler/codec/smtp/SmtpRequests.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-

jar/io/netty/handler/codec/smtp/DefaultLastSmtpContent.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpContent.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-jar/io/netty/handler/codec/smtp/SmtpCommand.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponseDecoder.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequest.java
* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponse.java

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* /opt/cola/permits/1235364851_1638382288.49/0/netty-codec-smtp-4-1-69-final-sources-jar/META-INF/maven/io.netty.netty-codec-smtp/pom.xml

1.282 org.jacoco.agent.rt 0.8.5

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1.283 janino 3.1.6

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* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/TokenType.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/TokenStream.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/Token.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/util/Annotatable.java

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* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/samples/package-
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* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/util/package-
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- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/CompilerFactory.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/CachingJavaSourceClassLoader.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/Opcodes.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/ClassBodyEvaluator.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/ClassFileIClass.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/util/ClassFile.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/util/AbstractTraverser.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/tools/HprofScrubber.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/ResourceFinderIClassLoader.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/JavaSourceClassLoader.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/Visitor.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/IClassLoader.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/JavaSourceIClassLoader.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/Unparser.java
- * /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/samples/DeclarationCounter.java

* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/Access.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/UnicodeUnescapeReader.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/ReflectionIClass.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/AntCompilerAdapter.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/ClassLoaderIClassLoader.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/ExpressionEvaluator.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/ScriptEvaluator.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/IClass.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/Java.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/FilterWarningHandler.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/SimpleCompiler.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/util/Traverser.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/util/AutoIndentWriter.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/Descriptor.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/TokenStreamImpl.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/Mod.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/MethodDescriptor.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/Scanner.java
* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/Compiler.java
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* /opt/cola/permits/1221016761_1635406644.92/0/janino-3-1-6-sources-jar/org/codehaus/janino/UnitCompiler.java

1.284 spring-cloud-starter 3.0.4

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1.285 asm-tree 7.1

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- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LdcInsnNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/AbstractInsnNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/MethodNode.java
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- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/AnnotationNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/InsnList.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/ModuleOpenNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LocalVariableNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/FrameNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/VarInsnNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/Util.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/IincInsnNode.java
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- * /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/InnerClassNode.java
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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/ModuleProvideNode.java
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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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* /opt/cola/permits/1135892749_1613626907.72/0/asm-tree-7-1-sources-2-jar/org/objectweb/asm/tree/package.html

1.286 netty-codec-redis 4.1.69.Final

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* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-jar/io/netty/handler/codec/redis/RedisCodecUtil.java

* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java

* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java

* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-jar/io/netty/handler/codec/redis/RedisCodecException.java

* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java

* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-jar/io/netty/handler/codec/redis/BulkStringRedisContent.java

* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java

* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-jar/io/netty/handler/codec/redis/package-info.java

* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-jar/io/netty/handler/codec/redis/RedisMessagePool.java

* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-jar/io/netty/handler/codec/redis/RedisMessageType.java

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* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-
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* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-
jar/io/netty/handler/codec/redis/RedisDecoder.java
* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-
jar/io/netty/handler/codec/redis/IntegerRedisMessage.java
* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-
jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java
* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-
jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-
jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-
jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-
jar/io/netty/handler/codec/redis/RedisMessage.java
* /opt/cola/permits/1235364865_1638382279.47/0/netty-codec-redis-4-1-69-final-sources-
jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
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1.287 scim2-sdk-client 2.1.1

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- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/ReactiveCassandraBatchTemplate.java
- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/cql/CqlOperationsExtensions.kt
- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/mapping/CodecRegistryTupleTypeFactory.java
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- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/FluentCassandraOperations.java
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jar/org/springframework/data/cassandra/repository/cdi/CassandraRepositoryBean.java  
* /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-  
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- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/mapping/PrimaryKey.java
- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/mapping/CassandraPersistentEntityMetadataVerifier.java
- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/repository/Query.java
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- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/convert/RowReaderPropertyAccessor.java
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- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/convert/AbstractCassandraConverter.java
- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/repository/config/EnableCassandraRepositories.java
- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/convert/MappingCassandraConverter.java
- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/config/SessionFactoryFactoryBean.java
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- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/config/DefaultBeanNames.java
- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/repository/CassandraRepository.java
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- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/repository/query/CassandraEntityInformation.java
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* /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-
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jar/org/springframework/data/cassandra/repository/support/CassandraRepositoryFactory.java

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- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/cql/keyspace/KeyspaceOption.java
- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/cql/keyspace/ColumnChangeSpecification.java
- * /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-jar/org/springframework/data/cassandra/core/cql/keyspace/CreateKeyspaceSpecification.java
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* /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-
jar/org/springframework/data/cassandra/repository/query/CassandraQueryCreator.java
* /opt/cola/permits/1221016641_1635406653.11/0/spring-data-cassandra-3-1-14-sources-
jar/org/springframework/data/cassandra/repository/query/AbstractCassandraQuery.java

1.289 jettison 1.1

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1.290 moshi 1.8.0

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* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/ToJson.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/FromJson.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/JsonDataException.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/JsonQualifier.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/AdapterMethodsFactory.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/MapJsonAdapter.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/ClassJsonAdapter.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/Json.java
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jar/com/squareup/moshi/LinkedHashMap.java
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* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/JsonUtf8Reader.java

* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/JsonScope.java

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* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/JsonValueReader.java

* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/JsonValueWriter.java

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- * /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/CollectionJsonAdapter.java
- * /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/internal/Util.java
- * /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/JsonAdapter.java
- * /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/Moshi.java
- * /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/StandardJsonAdapters.java
- * /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/ArrayJsonAdapter.java

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1.293 barchart-udt-bundle 2.3.0

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1.297 spring-web-mvc 5.3.12

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- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestPartMethodArgumentResolver.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdvice.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/config/annotation/PathMatchConfigurer.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/LastModified.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/handler/AbstractHandlerMapping.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/support/BindStatus.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/AbstractHandlerMethodAdapter.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdviceAdapter.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/HandlerInterceptor.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityExceptionHandler.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/config/FreeMarkerConfigurerBeanDefinitionParser.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/resource/ResourceHttpRequestHandler.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/MvcUriComponentsBuilder.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/DefaultEntityResponseBuilder.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-

jar/org/springframework/web/servlet/handler/AbstractHandlerExceptionResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/function/DefaultServerRequest.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/function/support/HandlerFunctionAdapter.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistration.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/tags/UrlTag.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/handler/PathPatternMatchableHandlerMapping.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/FrameworkServlet.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMethodArgumentResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/handler/MappedInterceptor.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/function/RequestPredicates.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/HandlerAdapter.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/MatrixVariableMethodArgumentResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java
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* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/config/annotation/EnableWebMvc.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/function/DefaultAsyncServerResponse.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfo.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistry.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-

jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurer.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
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* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMapping.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/view/DefaultRequestToViewNameTranslator.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/function/ErrorHandlerServerResponse.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
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* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/handler/MatchableHandlerMapping.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurationSupport.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/resource/PathResourceResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletInvocableHandlerMethod.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/DispatcherServlet.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/function/RequestPredicate.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/function/PathResourceLookupFunction.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/function/support/RouterFunctionMapping.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/config/annotation/CorsRegistration.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodArgumentResolver.
java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/condition/ParamsRequestCondition.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodProcessor.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/condition/HeadersRequestCondition.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/handler/AbstractUrlHandlerMapping.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
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* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/NoHandlerFoundException.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/tags/ArgumentAware.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/resource/VersionStrategy.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/view/document/AbstractXlsxView.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
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* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/ServletWrappingController.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBodyReturnValueHandler.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/ServerResponseExtensions.kt
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/resource/EncodedResourceResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/ToStringVisitor.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ViewMethodReturnValueHandler.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/HandlerFunction.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/config/annotation/DelegatingWebMvcConfiguration.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateView.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/ServerResponse.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/handler/HandlerExceptionResolverComposite.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/RouterFunctionDsl.kt
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/EntityResponse.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/SessionAttributeMethodArgumentResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/DefaultRenderingResponseBuilder.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/RenderingResponse.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/HandlerFilterFunction.java

* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfigurer.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/ServerRequestExtensions.kt
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMethodMappingNamingStrategy.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/resource/WebJarsResourceResolver.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/support/RequestContext.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/resource/CssLinkResourceTransformer.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/config/annotation/DefaultServletHandlerConfigurer.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/condition/AbstractRequestCondition.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/ResourceHandlerFunction.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/resource/CachingResourceTransformer.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/config/annotation/AsyncSupportConfigurer.java
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/function/RouterFunction.java
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 */
/**
 * A contract for inspecting and potentially modifying request data values such
 * as URL query parameters or form field values before they are rendered by a
 * view or before a redirect.
 *
 * <p>Implementations may use this contract for example as part of a solution
 * to provide data integrity, confidentiality, protection against cross-site
 * request forgery (CSRF), and others or for other tasks such as automatically
 * adding a hidden field to all forms and URLs.
 *
 * <p>View technologies that support this contract can obtain an instance to
 * delegate to via { @link RequestContext#getRequestDataValueProcessor()}.
 *
 * @author Rossen Stoyanchev
 * @since 3.1
 */
```

Found in path(s):

```
* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java
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 - * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java
 - * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java
 - * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java
 - * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
 - * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java
 - * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/view/ViewResolverComposite.java
 - * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerAdapter.java
 - * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/view/AbstractTemplateView.java
 - * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/view/tiles3/SpringLocaleResolver.java
 - * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java
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- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java
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- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/view/tiles3/SpringWildcardServletTilesApplicationContext.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/ThemeResolver.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/support/RedirectAttributesModelMap.java
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jar/org/springframework/web/servlet/handler/SimpleMappingExceptionResolver.java

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*/
/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* { @link #locateSource detected } during response rendering. Users can either specify
* a specific entry in the model via the { @link #setSourceKey sourceKey } property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See { @link #getSourceTypes() here }
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure { @link #setOutputProperties output properties }
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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* /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-
jar/org/springframework/web/servlet/view/xslt/XsltView.java

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- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/view/tiles3/AbstractSpringPreparerFactory.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/tags/form/OptionWriter.java
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- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/support/RedirectAttributes.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/condition/MediaTypeExpression.java
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- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/tags/ParamAware.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/mvc/AbstractUrlViewController.java
- * /opt/cola/permits/1220178444_1635319414.1/0/spring-webmvc-5-3-12-sources-jar/org/springframework/web/servlet/SmartView.java

1.298 java-driver-metrics-micrometer 4.10.0

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jar/com/datastax/oss/driver/internal/metrics/micrometer/MicrometerSessionMetricUpdater.java
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* /opt/cola/permits/1147203691_1616929112.9/0/java-driver-metrics-micrometer-4-10-0-sources-
jar/com/datastax/oss/driver/internal/metrics/micrometer/MicrometerNodeMetricUpdater.java
* /opt/cola/permits/1147203691_1616929112.9/0/java-driver-metrics-micrometer-4-10-0-sources-
jar/com/datastax/oss/driver/internal/metrics/micrometer/MicrometerMetricUpdater.java
```

1.299 jackson-jaxrs 2.13.0

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.300 netty-codec-haproxy 4.1.69.Final

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* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/META-INF/maven/io.netty/netty-codec-haproxy/pom.xml

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* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyCommand.java
* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyProtocolException.java
* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyProtocolVersion.java
* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessage.java
* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyConstants.java
* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/package-info.java
* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyProxiedProtocol.java
* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessageDecoder.java
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* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java
* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyTLV.java
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* /opt/cola/permits/1235364880_1638382302.42/0/netty-codec-haproxy-4-1-69-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessageEncoder.java

1.301 jaxen 1.2.0

1.301.1 Available under license :

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1.302 metrics-influxdb 1.1.0

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Found in path(s):

* /opt/cola/permits/1256060442_1642635485.54/0/pippo-metrics-influxdb-1-1-0-sources-jar/ro/pippo/influxdb/Reporter.java

1.303 asm-commons 7.1

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/**
 * Constructs a new { @link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 *
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see { @link Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */
```

Found in path(s):

```
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
```

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/**
 * Constructs a new { @link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see { @link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see { @link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */
```

Found in path(s):

```
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/GeneratorAdapter.java
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* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/MethodRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
```

```
jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/SignatureRemapper.java
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/**
 * Constructs a new { @link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the { @link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 *
 * @param classVisitor a { @link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */
```

Found in path(s):

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* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
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1.304 java-driver-core 4.10.0

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* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-
jar/com/datastax/dse/driver/internal/core/search/DateRangeUtil.java
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 */
/* The remainder of this class is largely based on jnr.ffi.Platform in jnr-ffi version 2.1.10.
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```
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jar/com/datastax/oss/driver/internal/core/os/CpuInfo.java
```

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- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/metadata/token/KeyspaceTokenMap.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/addresstranslation/PassThroughAddressTranslator.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/time/AtomicTimestampGenerator.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/internal/core/metadata/schema/DefaultDseViewMetadata.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/config/OptionsMap.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/metadata/schema/events/KeyspaceChangeEvent.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/session/SessionBuilder.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/type/codec/FloatCodec.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/internal/core/graph/binary/PolygonSerializer.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/type/codec/BooleanCodec.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/connection/package-info.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/metadata/schema/queries/DefaultSchemaQueriesFactory.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/util/collection/SimpleQueryPlan.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/loadbalancing/nodeset/MultiDcNodeSet.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/servererrors/SyntaxError.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/type/codec/extras/time/TimestampMillisCodec.java
- * /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/metadata/DefaultMetadata.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/metadata/token/ByteOrderedToken.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/metadata/CloudTopologyMonitor.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/session/throttling/PassThroughRequestThrottler.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/internal/core/graph/DefaultAsyncGraphResultSet.java
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* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/addresstranslation/Ec2MultiRegionAddressTranslator.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/control/ControlConnection.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/data/IdentifierIndex.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/loadbalancing/NodeDistance.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/protocol/CompressorSubstitutions.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/connection/CrcMismatchException.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/type/codec/registry/MutableCodecRegistry.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/channel/ChannelFactory.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/api/core/graph/PagingEnabledOptions.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/servererrors/QueryConsistencyException.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/api/core/metadata/schema/DseGraphTableMetadata.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/api/core/graph/GraphNode.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/config/typesafe/DefaultDriverConfigLoaderBuilder.java

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/api/core/data/time/DateRange.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/session/ReprepareOnUp.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/metadata/schema/events/TableChangeEvent.java
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* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/cql/TraceEvent.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/type/reflect/GenericType.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/api/core/graph/GraphSession.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/servererrors/OverloadedException.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/util/concurrent/ReplayingEventFilter.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/internal/core/data/geometry/DefaultLineString.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/api/core/metadata/DseNodeProperties.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/cql/PrepareRequest.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/channel/ChannelHandlerRequest.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/api/core/auth/DsePlainTextAuthProviderBase.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/cql/DefaultExecutionInfo.java
* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/internal/core/type/codec/extras/time/ZonedTimestampCodec.java
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Found in path(s):

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/META-INF/maven/com.datastax.oss/java-driver-core/pom.xml

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*/

/**

* Returns a gateway to the driver's DropWizard metrics, or { @link Optional#empty() } if all

* metrics are disabled, or if the driver has been configured to use MicroProfile or Micrometer

* instead of DropWizard (see { @code advanced.metrics.factory.class } in the configuration).

*

* <p>{ @link Metrics } was originally intended to allow programmatic access to the metrics, but it

* has a hard dependency to the DropWizard API, which makes it unsuitable for alternative metric

* frameworks. A workaround is to inject your own metric registry with { @link

* SessionBuilder#withMetricRegistry(Object) } when you build the session. You can then use the

* framework's proprietary APIs to retrieve the metrics from the registry.

*/

Found in path(s):

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/session/Session.java

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* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-

jar/com/datastax/oss/driver/Driver.properties

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 */
/**
 * Prepares a CQL statement asynchronously (the call returns as soon as the prepare query was
 * sent, generally before the statement is prepared).
 *
 * <p>Note that the bound statements created from the resulting prepared statement will inherit
 * some of the attributes of { @code query }; see { @link SyncCqlSession#prepare(SimpleStatement) }
 * for more details.
 *
 * <p>The result of this method is cached (see { @link SyncCqlSession#prepare(SimpleStatement) } for
 * more explanations).
 *
 * @param statement the CQL query to prepare (that can be any { @code SimpleStatement }).
 * @return a { @code CompletionStage } that, once complete, will produce the prepared statement.
 */
```

Found in path(s):

`/opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/oss/driver/api/core/cql/AsyncCqlSession.java`

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Found in path(s):

* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-
jar/com/datastax/oss/driver/internal/core/type/util/VIntCoding.java

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* /opt/cola/permits/1199743879_1630577640.01/0/java-driver-core-4-10-0-sources-1-jar/com/datastax/dse/driver/internal/core/graph/SearchUtils.java

1.305 spring-cloud-starter-consul 3.0.4

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* /opt/cola/permits/1222421561_1644998524.11/0/spring-cloud-starter-consul-3-0-4-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-consul/pom.xml

1.306 latencyutils 2.0.3

1.307 ojdbc 19.3.0.0

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* /opt/cola/permits/1073709641_1635898370.03/0/ojdbc10-19-3-0-0-jar/oracle/jdbc/defaultConnectionProperties.properties

1.308 zstd-jni 1.4.5-6

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Zstd-jni: JNI bindings to Zstd Library

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1.309 commons-compiler 3.1.6

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* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/java8/java/util/function/Consumer.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/Disassembler.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/java9/java/lang/module/ModuleReader.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/java9/java/lang/module/ModuleFinder.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/java8/java/util/stream/Stream.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/java8/java/util/Optional.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/java9/java/lang/module/ModuleReference.java

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* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/StringPattern.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/iterator/DirectoryIterator.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/resource/FileResource.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/resource/Resource.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/samples/ClassBodyDemo.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/LocatedException.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/WarningHandler.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/IScriptEvaluator.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/iterator/UniterableElementException.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/iterator/EnumerationIterator.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/Benchmark.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/iterator/ProducerIterator.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/resource/MapResourceCreator.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/reflect/ByteArrayClassLoader.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/ICookable.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/iterator/IteratorCollection.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/resource/ResourceFinder.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/resource/MultiResourceFinder.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-

jar/org/codehaus/commons/compiler/samples/ScriptDemo.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/samples/ExpressionDemo.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/package-info.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/resource/DirectoryResourceFinder.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/Cookable.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/samples/ShippingCost.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/resource/LazyMultiResourceFinder.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/samples/DemoBase.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/resource/FileResourceFinder.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/ISimpleCompiler.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/CompilerFactoryFactory.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/CompileException.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/AbstractJavaSourceClassLoader.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/resource/DirectoryResourceCreator.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/iterator/FilterListIterator.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/Location.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/InternalCompilerException.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/iterator/TransformingIterator.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/resource/MapResourceFinder.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/resource/JarDirectoriesResourceFinder.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/resource/ZipFileResourceFinder.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/resource/FileResourceCreator.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/ResourceFinderClassLoader.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/resource/ResourceCreator.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-

jar/org/codehaus/commons/compiler/IClassBodyEvaluator.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/iterator/MultiDimensionalIterator.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/ICompilerFactory.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/iterator/ReverseListIterator.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/ErrorHandler.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/Producer.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/iterator/TraversingIterator.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
jar/org/codehaus/commons/compiler/util/resource/PathResourceFinder.java
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jar/org/codehaus/commons/compiler/util/iterator/MultiIterator.java
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* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/nullanalysis/NotNull.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/nullanalysis/package-info.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/nullanalysis/NotNullByDefault.java

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 * /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
 jar/org/codehaus/commons/compiler/lang/package-info.java
 * /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
 jar/org/codehaus/commons/compiler/util/Predicate.java
 * /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
 jar/org/codehaus/commons/compiler/AbstractCompiler.java
 * /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
 jar/org/codehaus/commons/compiler/util/reflect/ApiLog.java
 * /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
 jar/org/codehaus/commons/compiler/util/resource/ResourceFinders.java
 * /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
 jar/org/codehaus/commons/compiler/util/resource/LocatableResource.java
 * /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
 jar/org/codehaus/commons/compiler/util/resource/package-info.java
 * /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
 jar/org/codehaus/commons/compiler/lang/ClassLoaders.java
 * /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
 jar/org/codehaus/commons/compiler/util/reflect/Methods.java

* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/samples/CompilerDemo.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/StringUtil.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/IMultiCookable.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/java8/java/util/package-info.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/reflect/package-info.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/MultiCookable.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/iterator/Iterables.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/io/InputStreams.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/reflect/Classes.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/Numbers.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/java8/java/util/function/package-info.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/reflect/Proxies.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/java8/java/util/function/Consumers.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/iterator/package-info.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/java8/java/util/stream/package-info.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/resource/ListableResourceFinder.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/util/reflect/NoException.java
* /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-jar/org/codehaus/commons/compiler/io/package-info.java

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- jar/org/codehaus/commons/compiler/util/LineAndColumnTracker.java
- * /opt/cola/permits/1199651225_1630558002.9/0/commons-compiler-3-1-6-sources-
- jar/org/codehaus/commons/compiler/util/resource/StringResource.java

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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java

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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java

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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsOpCode.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsRecord.java
* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponse.java

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* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java

* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java

* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsPtrRecord.java

* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java

* /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java

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- * /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java
- * /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java
- * /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
- * /opt/cola/permits/1221869446_1635493924.46/0/netty-codec-dns-4-1-69-final-sources-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java

1.311 amqp-client 5.10.0

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* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1-jar/com/amazonaws/services/kms/model/CancelKeyDeletionRequest.java
* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1-jar/com/amazonaws/services/kms/model/ExpirationModelType.java
* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1-jar/com/amazonaws/services/kms/model/TagResourceResult.java
* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1-jar/com/amazonaws/services/kms/model/transform/UpdateAliasResultJsonUnmarshaller.java
* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1-jar/com/amazonaws/services/kms/model/ListKeysResult.java
* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1-jar/com/amazonaws/services/kms/model/OriginType.java

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* /opt/cola/permits/1136114712_1613679830.62/0/aws-java-sdk-kms-1-11-415-sources-1-jar/com/amazonaws/auth/policy/actions/KMSActions.java

1.313 hibernate-commons-annotations

5.1.2.Final

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* /opt/cola/permits/1223884317_1635968840.91/0/spring-cloud-starter-bootstrap-3-0-4-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-bootstrap/pom.xml

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* /opt/cola/permits/1223884317_1635968840.91/0/spring-cloud-starter-bootstrap-3-0-4-sources-jar/org.springframework.cloud/bootstrap/marker/Marker.java

1.315 spring-framework 5.3.12

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jar/org/springframework/core/convert/ConversionException.java
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jar/org/springframework/core/type/classreading/MetadataReader.java
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/RecordComponentVisitor.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/TypeReference.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-

jar/org/springframework/asm/ModuleVisitor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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jar/org/springframework/asm/Handler.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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jar/org/springframework/asm/FieldVisitor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/ClassReader.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/Symbol.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/Attribute.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/MethodVisitor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/ClassWriter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/MethodWriter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/Edge.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/ByteVector.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/TypePath.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/Opcodes.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-

jar/org/springframework/asm/FieldWriter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/AnnotationVisitor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/RecordComponentWriter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/ModuleWriter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/Context.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/asm/SymbolTable.java
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Found in path(s):

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/NamedInheritableThreadLocal.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/ParameterizedTypeReference.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/env/ReadOnlySystemAttributesMap.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/VfsResource.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/OverridingClassLoader.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/ResourceUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/CompositeIterator.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/Resource.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/comparator/NullSafeComparator.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/ListBasedXMLStreamReader.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/NamedThreadLocal.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/lang/UsesJava8.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/concurrent/DelegatingCompletableFuture.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/lang/UsesSunHttpServer.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/task/support/ExecutorServiceAdapter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/task/AsyncListenableTaskExecutor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/concurrent/CompletableFutureAdapter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/MethodIntrospector.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/DomUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/XMLStreamReader.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/InstanceFilter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/env/ConfigurableEnvironment.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/concurrent/SettableListenableFuture.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/concurrent/ListenableFutureCallback.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/ExceptionDepthComparator.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/concurrent/ListenableFutureTask.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/SimpleNamespaceContext.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/DescriptiveResource.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/comparator/CompoundComparator.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/StaxEventHandler.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/StaxSource.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/style/ToStringCreator.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/lang/UsesJava7.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/buffer/NettyDataBufferFactory.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/env/PropertySourcesPropertyResolver.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/StringToLocaleConverter.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/comparator/InvertibleComparator.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/DomContentHandler.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/AutoPopulatingList.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/NestedCheckedException.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/task/AsyncTaskExecutor.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/comparator/Comparators.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/backoff/FixedBackOff.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/UpdateMessageDigestInputStream.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/VfsUtils.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/support/ResourceRegion.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/comparator/BooleanComparator.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/env/Environment.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/function/SingletonSupplier.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/env/PropertySources.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ByteBufferConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/concurrent/SuccessCallback.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/XMLEventStreamWriter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/NestedRuntimeException.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/support/ResourcePropertySource.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/ParameterNameDiscoverer.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/comparator/ComparableComparator.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/function/SupplierUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/InputStreamResource.java

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org.springframework.core.ReactiveAdapterRegistry\$SpringCoreBlockHoundIntegration

Found in path(s):

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/serializer/DefaultSerializer.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/annotation/SynthesizedAnnotation.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/annotation/AliasFor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/JdkIdGenerator.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/serializer/support/SerializationDelegate.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java

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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/ContextResource.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/style/ValueStyler.java
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/lang/NonNullApi.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/xml/StaxResult.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/convert/converter/GenericConverter.java
```

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/style/ToStringStyler.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/AbstractXMLReader.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/DecoratingClassLoader.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/StandardReflectionParameterNameDiscoverer.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/support/EncodedResource.java
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/type/ClassMetadata.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/ConversionService.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/ConversionFailedException.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/codec/EncodingException.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/StringToArrayConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/style/DefaultToStringStyler.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/WritableResource.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/ConverterNotFoundException.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/NestedExceptionUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/TypeUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/codec/CodecException.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/ResolvableTypeProvider.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/annotation/Order.java

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/concurrent/FutureAdapter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/NumberUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ObjectToOptionalConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/InvalidMimeTypeException.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/concurrent/ListenableFutureAdapter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/StreamConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/KotlinReflectionParameterNameDiscoverer.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/codec/DecodingException.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/env/EnvironmentCapable.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/DefaultConversionService.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/serializer/DefaultDeserializer.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/StringValueResolver.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/env/CompositePropertySource.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/ResourceEditor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/NestedIOException.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ArrayToArrayConverter.java

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 */
```

Found in path(s):

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jar/org/springframework/core/io/buffer/DataBuffer.java
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/Base64Utils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/type/classreading/SimpleAnnotationMetadataReadingVisitor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/MultiValueMap.java
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/codec/ByteArrayDecoder.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/unit/DataUnit.java
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jar/org/springframework/core/type/AnnotatedTypeMetadata.java
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jar/org/springframework/lang/NonNullFields.java
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jar/org/springframework/core/BridgeMethodResolver.java
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/buffer/NettyDataBuffer.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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jar/org/springframework/util/PathMatcher.java
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/annotation/MergedAnnotationSelector.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/lang/NonNull.java
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jar/org/springframework/core/ReactiveAdapter.java
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-

jar/org/springframework/core/type/classreading/AbstractRecursiveAnnotationVisitor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/log/LogMessage.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/PathResource.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/codec/CharSequenceEncoder.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/SimpleRouteMatcher.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/xml/AbstractStaxXMLReader.java
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-  
jar/org/springframework/core/ConfigurableObjectInputStream.java  
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-  
jar/org/springframework/core/convert/support/StringToPropertiesConverter.java  
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-  
jar/org/springframework/lang/UsesSunMisc.java  
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-  
jar/org/springframework/core/type/filter/TypeFilter.java  
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-  
jar/org/springframework/core/convert/converter/ConverterRegistry.java  
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-  
jar/org/springframework/core/convert/support/EnumToIntegerConverter.java  
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-  
jar/org/springframework/util/backoff/BackOffExecution.java
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/type/filter/AssignableTypeFilter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/concurrent/FailureCallback.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/env/ConfigurablePropertyResolver.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/CollectionToStringConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/ProtocolResolver.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/task/TaskExecutor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/ErrorHandler.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/EnumToStringConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/objenesis/SpringObjenesis.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/backoff/BackOff.java

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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-

jar/org/springframework/util/PropertyPlaceholderHelper.java
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jar/org/springframework/core/type/MethodMetadata.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/type/StandardClassMetadata.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/log/LogDelegateFactory.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/AttributeAccessor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/Constants.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/CoroutinesUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/type/classreading/MergedAnnotationReadingVisitor.java
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- * /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
- * /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/SimpleTransformErrorListener.java
- * /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/style/StylerUtils.java
- * /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
- * /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
- * /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/task/SyncTaskExecutor.java
- * /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/InfrastructureProxy.java
- * /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
- * /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/serializer/support/SerializationFailedException.java
- * /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/task/TaskTimeoutException.java

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* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/ExceptionTypeFilter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ArrayToObjectConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/PropertiesToStringConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-jar/org/springframework/util/xml/StaxStreamHandler.java

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jar/org/springframework/util/FileCopyUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/xml/XmlValidationModeDetector.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/convert/support/GenericConversionService.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/KotlinDetector.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/SimpleIdGenerator.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/DefaultResourceLoader.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/PropertiesPersister.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/task/TaskDecorator.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/ResolvableType.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/FileUrlResource.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/FastByteArrayOutputStream.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-

jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/support/ResourceArrayPropertyEditor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/CommonsLogWriter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/comparator/InstanceComparator.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/annotation/MergedAnnotationsCollection.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/env/PropertyResolver.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/annotation/MergedAnnotationCollectors.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/Assert.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/annotation/TypeMappedAnnotations.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/support/PropertySourceFactory.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/support/ResourcePropertiesPersister.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/SystemPropertyUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/annotation/AnnotationTypeMapping.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/SortedProperties.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/DefaultPropertiesPersister.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/LinkedMultiValueMap.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/convert/support/StringToBooleanConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/convert/support/StringToNumberConverterFactory.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/io/UrlResource.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/convert/converter/ConvertingComparator.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/ReactiveTypeDescriptor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/util/CustomizableThreadCreator.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-

jar/org/springframework/core/log/LogAccessor.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/convert/support/StringToUUIDConverter.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/env/MutablePropertySources.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/env/EnumerablePropertySource.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/core/Conventions.java
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Found in path(s):

* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/cglib/proxy/MethodProxy.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/cglib/core/AbstractClassGenerator.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/cglib/core/ReflectUtils.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/cglib/core/AsmApi.java
* /opt/cola/permits/1220178500_1635319458.1/0/spring-core-5-3-12-sources-
jar/org/springframework/cglib/core/KeyFactory.java

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