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* /opt/cola/permits/1258617678_1643096306.31/0/netty-transport-classes-kqueue-4-1-71-final-sources-jar/io/netty/channel/kqueue/KQueueDomainDatagramChannel.java
* /opt/cola/permits/1258617678_1643096306.31/0/netty-transport-classes-kqueue-4-1-71-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueDatagramChannel.java

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1.2 velocity 1.7

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**1.3 javolution 5.5.1**

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```java
/**
 * Interface for an element's attribute specifications.
 *
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 * See &lt;a href='http://www.saxproject.org'>http://www.saxproject.org</a>&gt;&lt;/a&gt;
 * for further information.
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 *<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>
 *
 * 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 AttributeListImpl
 * helper class.</p>
 *
 * An attribute list includes only attributes that have been
 * specified or defaulted: #IMPLIED attributes will not be included.</p>
 *
 * There are two ways for the SAX application to obtain information
 * from the AttributeList. First, it can iterate through the entire
 * list:
 *
 * ```java
 * 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>
 *
 * (Note that the result of getLength() will be zero if there
 * are no attributes.)
```
As an alternative, the application can request the value or type of specific attributes:

```java
public void startElement (String name, AttributeList atts) {
  String identifier = atts.getValue("id");
  String label = atts.getValue("label");
  [...]
}
```

@since SAX 1.0
@author David Megginson
@version 2.0.1 (sax2r2)

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This was the main event-handling interface for SAX1; in SAX2, it has been replaced by `ContentHandler`, which provides Namespace support and reporting of skipped entities. This interface is included in SAX2 only to support legacy SAX1 applications.

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.

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.
Basic interface for resolving entities.

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 setEntityResolver method.

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.

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.

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

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).

@since SAX 1.0
@author David Megginson
@version 2.0.1 (sax2r2)
@see org.xml.sax.XMLReader#setEntityResolver
@see org.xml.sax.InputSource

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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 SAX event in the XML source document.
Note that the results returned by the object will be valid only
during the scope of each callback method: the application
will receive unpredictable results if it attempts to use the
locator at any other time, or after parsing completes.</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>

*SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.ContentHandler#setDocumentLocator
*/

// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unsupported operation.
 *
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 * 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>
 *
 * 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
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.SAXNotRecognizedException
*/

Found in path(s):
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/Locator.java

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 */

Found in path(s):
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/xml/sax/XMLReaderImpl.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/lang/EnumConstantNotPresentException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/util/ReentrantLock.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/realtime/MemoryArea.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/Serializable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/lang/Immutable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/util/FormatFlagsConversionMismatchException.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/lang/Comparable.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/java/io/InvalidClassException.java

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Found in path(s):
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/context/PoolContext.java
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/javolution/context/PoolContext.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>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * 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.
 *
 * 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
* interface, which includes Namespace support.

* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @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/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/Parser.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>
 *
 * This exception may include information for locating the error
 * in the original XML document, as if it came from a Locator object. Note that although the application
 * will receive a SAXParseException as the argument to the handlers
 * in the 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>
 *
 * Since this exception is a subclass of SAXException
* SAXException}, it inherits the ability to wrap another exception.</p>
* @since SAX 1.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
* @see org.xml.sax.SAXException
* @see org.xml.sax.Locator
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/SAXParseException.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>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </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
* @version 2.0.1 (sax2r2)
*/

Found in path(s):
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/XMLFilter.java
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/**
 * Receive notification of basic DTD-related events.
 *
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 */

/**
 * Receive notification of basic DTD-related events.
 *
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 */
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.

Note that this interface includes only those DTD events that the XML recommendation requires processors to report: notation and unparsed entity declarations. 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. (If the LexicalHandler is used, these events must also be reported before the endDTD event.)

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.

@since SAX 1.0
@author David Megginson
@version 2.0.1 (sax2r2)

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Found in path(s):
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/DTDHandler.java
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Found in path(s):
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/_templates/javolution/util/FastBitSet.java
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 * freely granted, provided that this notice is preserved.
 */

// NO WARRANTY! This class is in the public domain.
/**
 * Interface for a list of XML attributes.
 *
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. See
 * <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 */

This interface allows access to a list of attributes in
three different ways:

- by attribute index;
- by Namespace-qualified name; or
- by qualified (prefixed) name.

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).
* Because SAX2 conforms to the original "Namespaces in XML"
* recommendation, it normally does not
* give namespace declaration attributes a namespace URI.

* <p>
*
* <p>Some SAX2 parsers may support using an optional feature flag
* (<code>http://xml.org/sax/features/xmlns-uris</code>) to request
* that those attributes be given URIs, conforming to a later
* backwards-incompatible revision of that recommendation. (The
* attribute's "local name" will be the prefix, or "xmlns" when
* defining a default element namespace.) For portability, handler
* code should always resolve that conflict, rather than requiring
* parsers that can change the setting of that feature flag.  </p>
*
* <p>If the namespace-prefixes feature (see above) is
* <var>false</var>, 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
* @version 2.0.1 (sax2r2)
*

Found in path(s):
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/Attributes.java

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/**
* Encapsulate a general SAX 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>
* See &lt;a href='http://www.saxproject.org'&gt;http://www.saxproject.org&lt;/a&gt;
* for further information.
* </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  
* @version 2.0.1 (sax2r2)  
* @see org.xml.sax.SAXParseException
 */

Found in path(s):
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/SAXException.java

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// NO WARRANTY! This class is in the Public Domain.
/**
* Interface for reading an XML document using callbacks.
*  
* <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><strong>Note:</strong> despite its name, this interface does
* not extend the standard Java Reader
* interface, because reading XML is a fundamentally different activity
* than reading character data.</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>
*  
* 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
This interface replaces the (now deprecated) SAX 1.0 interface. The XMLReader interface contains two important enhancements over the old Parser interface (as well as some minor ones):

- 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.

There are adapters available to convert a SAX 1 Parser to a SAX 2 XMLReader and vice-versa.

@since SAX 2.0
@author David Megginson
@version 2.0.1+ (sax2r3pre1)
@see org.xml.sax.XMLFilter

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 * Default base class for handlers.
 *
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 *
 * 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 DefaultHandler class instead.
 *
 * 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.
 *
 * Note that the use of this class is optional.
 *
 * @deprecated This class works with the deprecated DocumentHandler interface. It has been replaced by the SAX2 DefaultHandler class.
 * @since SAX 1.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 * @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/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/HandlerBase.java

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/**
 * Basic interface for SAX error handlers.
 *
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 *
 * 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>
 *
 * < strong>WARNING:</strong> If an application does not register an ErrorHandle
 * except that SAXParseException's will be thrown for fatal errors.
 * In order to detect validity errors, an ErrorHandler that does something
 * with [ @link #error error() ] calls must be registered.</p>
 *
 * For XML processing errors, a SAX driver must use this interface
 * in preference to 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 report additional errors after a call to
 * [ @link fatalError fatalError ]. In other words, a SAX driver class
 * may throw an exception after reporting any fatalError.
 * Also parsers may throw appropriate exceptions for non-XML errors.
 * For example, [ @link XMLReader#parse XMLReader.parse() ] would throw
 * an IOException for errors accessing entities or the document.</p>
 *
 * @since SAX 1.0
 * @author David Megginson
 * @version 2.0.1+ (sax2r3pre1)
 * @see org.xml.sax.XMLReader#setErrorHandler
 * @since org.xml.sax.SAXParseException
 */

Found in path(s):
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/**
 * Exception class for an unrecognized identifier.
 *
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 * @see org.xml.sax.SAXNotSupportedException
 */

Found in path(s):
* /opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-
  jar/org/xml/sax/SAXNotRecognizedException.java
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/**
 * A single input source for an XML entity.
 *
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 * @see org.xml.sax.SAXNotRecognizedException
 */
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, disregarding any text encoding declaration found in that stream.

If there is no character stream, but there is a byte stream, the parser will use that byte stream, using the encoding specified in the InputSource or else (if no encoding is specified) autodetecting the character encoding using an algorithm such as the one in the XML specification. 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.

An InputSource object belongs to the application: the SAX parser shall never modify it in any way (it may modify a copy if necessary). However, standard processing of both byte and character streams is to close them on as part of end-of-parse cleanup, so applications should not attempt to re-use such streams after they have been handed to a parser.

@since SAX 1.0
@author David Megginson
@version 2.0.1 (sax2r2)
@see org.xml.sax.XMLReader#parse(org.xml.sax.InputSource)
@see org.xml.sax.EntityResolver#resolveEntity

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/**
 * Receive notification of the logical content of a document.
 *
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 *
 * 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
* <code>ContentHandler</code> class in the <code>java.net</code> package; that means that it's probably a bad idea to do</p>
*
* <pre>import java.net.*;
* import org.xml.sax.*;
* </pre>
*
* <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
* @version 2.0.1+ (sax2r3pre1)
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):
*/opt/cola/permits/1118987831_1608672578.56/0/javolution-5-5-1-sources-2-jar/org/xml/sax/ContentHandler.java
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1.13 jetty-webapp 9.3.25.v20180904

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/AppendableWriter.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/escape/CharEscaperBuilder.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionHandler.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4.jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
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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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  jar/jersey/repackaged/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/Count.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/SortedIterables.java
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  jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
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  jar/jersey/repackaged/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collection/DescendingImmutableSortedSet.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/ByteSource.java
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 * @param securePort the secure port to redirect to.
 */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
 * @param secureScheme A scheme string like "https"
 */

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jar/io/netty/bootstrap/ServerBootstrapConfig.java
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jar/io/netty/channel/PreferHeapByteBufAllocator.java
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jar/io/netty/channel/WriteBufferWaterMark.java
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jar/io/netty/channel/SelectStrategy.java
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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}. 
 *
 * <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>
 *
 * 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>
 *
 * For more information, please refer to the documentation of each subtype.
The context object

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.

State management

A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends `@link SimpleChannelInboundHandler<Message>` {

    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}
```

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 an unauthenticated client can get the confidential information:

```java
public class DataServerInitializer extends `@link ChannelInitializer`<Channel> {

    // Create a new handler instance per channel.
    // See `@link ChannelInitializer#initChannel(Channel)`.

    public class DataServerInitializer extends `@link ChannelInitializer`<Channel> {

        public void initChannel(Channel channel) {
            channel.pipeline().addLast(new DataServerHandler());
        }
    }
```
Using `AttributeKey`s

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 `AttributeKey`s which is provided by `ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}
```

```java
@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```
    { @code @Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>SHARED</b>);
    }
}
</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>
<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>
<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>
<p>
This annotation is provided for documentation purpose, just like
</p>

<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.
</p>

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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/AbstractServerChannel.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/oio/OioEventLoopGroup.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java

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* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-jar/io/netty/bootstrap/FailedChannel.java
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jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
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jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
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  jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/ChannelProgressiveFuture.java
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  jar/io/netty/channel/AbstractEventLoopGroup.java
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  jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1272337451_1644993374.37/0/netty-transport-4-1-71-final-sources-
  jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
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1.28 kerby-util 1.1.0

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1.29 jackson 2.10.5

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1.41 jets3t 0.9.0

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 * Project hosted at http://bitbucket.org/jmurty/jets3t/
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 */
package org.jets3t.service.acl;

/**
 * Represents an access permission, as granted to grantees in an @link AccessControlList].
 * Only a limited set of permissions are available, each one is available as a public static
 * variable in this class of the form PERMISSION_XYZ.
 * 
 * @author James Murty
 */
public class Permission {
    public static final Permission PERMISSION_FULL_CONTROL = new Permission("FULL_CONTROL");
    public static final Permission PERMISSION_READ = new Permission("READ");
    public static final Permission PERMISSION_WRITE = new Permission("WRITE");
    public static final Permission PERMISSION_READ_ACP = new Permission("READ_ACP");
    public static final Permission PERMISSION_WRITE_ACP = new Permission("WRITE_ACP");

    private String permissionString = "";

    private Permission(String permissionString) {
        this.permissionString = permissionString;
    }

    /**
     * @param str
     * a string representation of a permission, eg <tt>FULL_CONTROL</tt>
     * @return
     */

    public String getPermissionString() {
        return permissionString;
    }

    public void setPermissionString(String permissionString) {
        this.permissionString = permissionString;
    }

    public boolean equals(Object other) {
        if (other instanceof Permission) {
            return permissionString.equals(((Permission) other).permissionString);
        }
        return false;
    }

    public int hashCode() {
        return permissionString.hashCode();
    }

    public String toString() {
        return permissionString;
    }
}
* the Permission object represented by the given permission string
*/
public static Permission parsePermission(String str) {
    Permission permission = null;
    if (str == null) {
        // Do nothing
    } else if (str.equals(PERMISSION_FULL_CONTROL.toString())) {
        permission = PERMISSION_FULL_CONTROL;
    } else if (str.equals(PERMISSION_READ.toString())) {
        permission = PERMISSION_READ;
    } else if (str.equals(PERMISSION_WRITE.toString())) {
        permission = PERMISSION_WRITE;
    } else if (str.equals(PERMISSION_READ_ACP.toString())) {
        permission = PERMISSION_READ_ACP;
    } else if (str.equals(PERMISSION_WRITE_ACP.toString())) {
        permission = PERMISSION_WRITE_ACP;
    } else {
        permission = null;
    }
    return permission;
}

/**
 * @return
 * the string representation of a permission object, eg <tt>FULL_CONTROL</tt>
 */
public String toString() {
    return permissionString;
}

public int hashCode() {
    return permissionString.hashCode();
}

public boolean equals(Object obj) {
    return (obj instanceof Permission) && toString().equals(obj.toString());
}

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/*
 */

/*@(#)MimeTypeParseException.java 1.6 05/11/16 */

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* @(DataHandler.java) DataHandler.java 1.39 05/11/16
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/
* @(#)UnsupportedDataTypeException.java 1.9 05/11/16
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* @(#)MimetypesFileTypeMap.java1.17 05/11/16
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1.43 failureaccess 1.0.1

1.44 jetty-webapp 9.3.20.v20170531

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* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/WebAppContext.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/DescriptorProcessor.java
* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/WebAppClassLoader.java
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* /opt/cola/permits/1272441382_1645007208.93/0/jetty-webapp-9-3-20-v20170531-sources-jar/org/eclipse/jetty/webapp/WebInfConfiguration.java
1.45 netty 4.1.65.Final

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 *
* Abstract: The main routine
 *
--*/

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/*

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*/

For hadoop-common-project/hadoop-common/src/main/native/gtest

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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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 * XXX - This method should go away once the EL interpreter moves
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 *
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 * @param expectedType The expected resulting type
 * @param pageContext The page context
 * @param functionMap Maps prefix and name to Method
 * @return The result of the evaluation
 */

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* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
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* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
  jar/io/netty/handler/codec/redis/RedisEncoder.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
  jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
  jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
  jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
  jar/io/netty/handler/codec/redis/RedisCodecException.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
  jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
  jar/io/netty/handler/codec/redis/RedisMessagePool.java
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* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
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* /opt/cola/permits/1258617648_1643096341.2/0/netty-codec-redis-4-1-71-final-sources-
  jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java

1.60 zlib 1.2.8

1.60.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
    version 1.2.11, January 15th, 2017

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* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/JavaBeanPropertyDescriptor.java
* /opt/cola/permits/1272337494_1644993409.91/0/dozer-5-5-1-sources-jar/org/dozer/propertydescriptor/DeepHierarchyElement.java
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1.63 curator-recipes 2.13.0

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$Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $
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 * $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $ 
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/* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $ */

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* $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultFunctionCallExpr.java
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* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
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$Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo $

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 * $Revision: 1157 $
 * $Date: 2006-06-03 13:07:37 -0700 (Sat, 03 Jun 2006) $
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* $Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/Navigator.java
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 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/FloorFunction.java
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/*
$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $

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 * $Revision: 1332 $
 * $Date: 2008-10-18 06:29:28 -0700 (Sat, 18 Oct 2008) $
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* $Id: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/FunctionContext.java
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 * $Header$
 * $Revision: 1162 $
 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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$Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo $

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* $Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* $Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo $  *
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathExpr.java
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* $Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $

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* $Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo $
* /

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 * $Header$
 * $Revision: 1268 $
 * $Date: 2006-12-10 07:32:14 -0800 (Sun, 10 Dec 2006) $
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* $Id: Step.java 1268 2006-12-10 15:32:14Z elharo $
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 * $Revision: 1236 $
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* $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1370 $
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* $Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/NamespaceNode.java
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 * $Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathHandler.java

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* $Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTest.java
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* $Revision: 1255 $
* $SDate: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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 * $Revision: 1396 $
 * $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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$Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo$

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* $Id: DefaultPathExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/FilterExpr.java
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 * $Header$
 * $Revision: 1335 $
 * $Date: 2008-11-30 06:20:38 -0800 (Sun, 30 Nov 2008) $
 * $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
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$Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
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*   $Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
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*$Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LowerFunction.java
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* $Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultStep.java

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/*
$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $
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 * $Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/jaxen/DefaultNavigator.java

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 * $Date: 2012-05-05 12:31:33 -0400 (Sat, 05 May 2012) $
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* $Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo $
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/iter/IterableAncestorAxis.java
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 * $Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo $
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  * /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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 * $Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $

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* $Id: CeilingFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id$
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NodeComparator.java
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* $Revision: 1302 $
* $Date: 2007-05-02 07:33:29 -0700 (Wed, 02 May 2007) $
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* $Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo $

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* $Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1279 $
* $Date: 2007-01-06 04:21:12 -0800 (Sat, 06 Jan 2007) $
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 * $Header$
 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 * $Id: Token.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathExpr.java
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* $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo $ *
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* $Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo $
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* $Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAllNodeStep.java
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$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo $

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* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $
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* jar/org/jaxen/expr/VariableReferenceExpr.java
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* $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources.jar/org/jaxen/util/FollowingSiblingAxisIterator.java
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 * $Revision: 1128 $
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* $Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo $
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultArithExpr.java
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* $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/cola/permits/100096325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/RoundFunction.java

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$Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $

Found in path(s):
/opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/XPathSyntaxException.java
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 * $Revision: 1396 $
 * $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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$Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $

Found in path(s):
/opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
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 * *
 * $Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $
 */
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/jaxen/pattern/NodeTypeTest.java
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 * $Header$
 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/LinkedIterator.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo $
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableDescendantAxis.java
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$Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo$

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 * Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006)
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* $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $ */

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$Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo $

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$Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo $

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 * $Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
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  * $Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo $
  */

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/BinaryExpr.java
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* $Header$
* $Revision: 1232 $
* $Date: 2006-11-08 08:37:59 -0800 (Wed, 08 Nov 2006) $
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$Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo $
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* $Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/jaxen/saxpath/XPathReader.java
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 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 * $Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo $
 */
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/jaxen/function/LangFunction.java
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 * $Revision: 1161 $
 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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$Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $

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* $Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMinusExpr.java
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$Id: Context.java 1219 2006-10-15 21:08:16Z elharo $

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* $Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo $
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$Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo$

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* $Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* $Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1160 $
* $Date: 2006-06-03 13:26:02 -0700 (Sat, 03 Jun 2006) $
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* $Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
  jar/org/jaxen/UnsupportedAxisException.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ext/EndsWithFunction.java
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 * $Revision: 1261 $
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*
*$Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultCommentNodeStep.java
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* $Header$
* $Revision: 1159 $
* $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
* 
* ===================================================================
* $Date: 2006-09-21 04:48:05 -0700 (Thu, 21 Sep 2006) $ *
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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $ *
* /

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/DocumentNavigator.java
No license file was found, but licenses were detected in source scan.

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  * $Header$
  * $Revision: 1161 $
  * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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  *
  * $Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
  */
Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/jaxen/jdom/JDOMXPath.java
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 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/SubstringFunction.java
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* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

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 * $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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* $Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $
* /

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Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultFilterExpr.java
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/*
$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins $

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* $Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo $
* /

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* $Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
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$Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $

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* $Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Revision: 1258 $
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* *
* $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/PredicateSet.java
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* $Id:
  */

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenRuntimeException.java
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenConstants.java

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$Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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/opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/xslt/DocumentFunction.java
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 * $Revision: 1128 $
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 * $Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Revision: 1324 $
 * $Date: 2008-04-26 18:48:59 -0700 (Sat, 26 Apr 2008) $
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* $Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $
*/

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* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo $
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  jar/org/jaxen/saxpath/SAXPathException.java
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* $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $
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* $Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo $
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* $Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $
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* $Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo $
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* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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$Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo $

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* $Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/DOMXPath.java
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* $Date: 2006-11-08 11:06:30 -0800 (Wed, 08 Nov 2006) $  
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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $  
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/UnaryExpr.java
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 * $Revision: 1277 $
 * $Date: 2007-01-05 10:25:43 -0800 (Fri, 05 Jan 2007) $
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 * $Revision: 1364 $
 * $Date: 2011-07-30 05:46:45 -0400 (Sat, 30 Jul 2011) $
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* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/DocumentNavigator.java

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* $Header$
* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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$Id: TokenTypes.java 1334 2008-11-29 17:58:48Z elharo $

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 * $Revision: 1128 $
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* $Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/XPathNamespace.java
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$/Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $$

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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/MultiplicativeExpr.java
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/*
$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
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$Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java
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* $Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* $Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id:IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
* /

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 * $Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: NoNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo $

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 * $Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $

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/*
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$Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $

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* *
* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
* jar/org/jaxen/saxpath/XPathSyntaxException.java
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* $Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo $
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Manifest-Version: 1.0
Implementation-Title: Netty/Example
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name:
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.example
Implementation-Version: 4.1.71.Final
Built-By: root
Bnd-LastModified: 1639059112249
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.barchart.udt;version="[2.3,3)";com.google.protobuf;version="[2.6,3)";io.netty.bootstrap;version="[4.1,5)";io.netty.buffer;version="[4.1,5)";io.netty.channel;version="[4.1,5)";io.netty.channel.group;version="[4.1,5)";io.netty.channel.local;version="[4.1,5)";io.netty.channel.nio;version="[4.1,5)";io.netty.channel.oio;version="[4.1,5)";io.netty.channel.rxtx;version="[4.1,5)";io.netty.channel.sctp;version="[4.1,5)";io.netty.channel.sctp.nio;version="[4.1,5)";io.netty.channe...
1.72 kerb-client 1.0.0

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* /opt/cola/permits/1272441346_1645007214.07/0/jetty-http-9-3-20-v20170531-sources-jar/org/eclipse/jetty/http/PathMap.java
* /opt/cola/permits/1272441346_1645007214.07/0/jetty-http-9-3-20-v20170531-sources-jar/org/eclipse/jetty/http/PathMappings.java
* /opt/cola/permits/1272441346_1645007214.07/0/jetty-http-9-3-20-v20170531-sources-jar/org/eclipse/jetty/http/FieldPreEncoder.java
* /opt/cola/permits/1272441346_1645007214.07/0/jetty-http-9-3-20-v20170531-sources-jar/org/eclipse/jetty/http/Field.java
1.74 graphviz-java 0.7.0

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Abstract: The main routine

For src/main/native/src/org/apache/hadoop/io/compress/lz4/[lz4.h,lz4.c,lz4hc.h,lz4hc.c].

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For hadoop-common-project/hadoop-common/src/main/native/gtest

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* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/MessageLiteToString.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/ByteOutput.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/TextFormatEscaper.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/Android.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/FloatArrayList.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/RpcController.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/duration.proto
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/ProtocolMessageEnum.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/AbstractParser.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/type.proto
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/wrappers.proto
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/RopeByteString.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/compiler/plugin.proto
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/UnsafeUtil.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/TextFormatParseInfoTree.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/source_context.proto
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/InvalidProtocolBufferException.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/Service.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/GeneratedMessageLite.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/RepeatedFieldBuilderV3.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/AbstractMessage.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/BlockingService.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/Message.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/Utf8.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/timestamp.proto
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/UnmodifiableLazyStringList.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/google/protobuf/struct.proto
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/ExtensionRegistry.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/WireFormat.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/SmallSortedMap.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/CodedInputStream.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/SingleFieldBuilderV3.java
* /opt/cola/permits/1001183670_1646171634.78/0/protobuf-java-3-7-1-sources-jar/com/google/protobuf/GeneratedMessage.java
1.82 stax 3.1.4
1.82.1 Available under license:

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/* Stax2 API extension for Streaming API for XML processing (StAX).
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Found in path(s):
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingReader.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2Util.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingWriter.java
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Found in path(s):
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/Stax2WriterAdapter.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/Stax2WriterImpl.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/Stax2ReaderImpl.java
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/* StAX2 extension for StAX API (JSR-173).
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/Base64DecoderBase.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/StringBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/StreamWriterDelegate.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/NumberUtil.java
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/* Reference Implementation of
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/ValueEncoderFactory.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/typed/Base64Variant.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/typed/Base64Variants.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/XMLStreamReader2.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/TypedXMLStreamReader2.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/ValueDecoderFactory.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/typed/AsciiValueEncoder.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/ri/Stax2EventReaderImpl.java

1.83 hk2-utils 2.5.0-b32
1.83.1 Available under license :
  CDDL + GPLv2 with classpath exception
  https://glassfish.java.net/nonav/public/CDDL+GPL_1_1.html
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1.84 netty 4.1.71.Final

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Found in path(s):
* /opt/cola/permits/1272337423_1644993381.49/0/netty-example-4-1-71-final-jar/META-INF/maven/io.netty/netty-example/pom.xml

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Manifest-Version: 1.0
Implementation-Title: Netty/Example
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name:
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.example
Implementation-Version: 4.1.71.Final
Built-By: root
Bnd-LastModified: 1639059112249
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.barchart.udt;version="[2.3,3)", com.google.protobuf;version="[2.6,3)", io.netty.bootstrap;version="[4.1,5)", io.netty.buffer;version="[4.1,5)", io.netty.channel;version="[4.1,5)", io.netty.channel.group;version="[4.1,5)", io.netty.channel.local;version="[4.1,5)", io.netty.channel.nio;version="[4.1,5)", io.netty.channel.oio;version="[4.1,5)", io.netty.channel.rxtx;version="[4.1,5)", io.netty.channel.sctp
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* /opt/cola/permits/1272337423_1644993381.49/0/netty-example-4-1-71-final.jar/META-INF/MANIFEST.MF

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1.85 eclipse-persistence-oracle 2.4.2-SNAPSHOT
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* Oracle - initial API and implementation from Oracle TopLink
* dminsky - added countOccurrencesOf(Object, List) API
* 08/23/2010-2.2 Michael O'Brien
* - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
* warn if expected "_persistence_*_vh" method not found
* instead of throwing NPE during deploy validation.
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/helper/Helper.java
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* Oracle - initial API and implementation from Oracle TopLink
* 08/15/2008-1.0.1 Chris Delahunt
* - 237545: List attribute types on OneToMany using @OrderBy does not work with attribute change tracking
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/queries/OrderedListContainerPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/queries/ListContainerPolicy.java
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* Oracle - initial API and implementation from Oracle TopLink
* 04/01/2011-2.3 Guy Pelletier
* 337323: Multi-tenant with shared schema support (part 2)
* 08/18/2011-2.3.1 Guy Pelletier
* 355093: Add new 'includeCriteria' flag to Multitenant metadata
* 09/09/2011-2.3.1 Guy Pelletier
* 356197: Add new VPD type to MultitenantType
*******************************************************************************/

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* 06/12/2008-1.0M9 James Sutherland
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*      dclarke/tware - initial
*      tware
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*     Oracle - initial API and implementation from Oracle TopLink
* 10/29/2010-2.2 Michael O'Brien
* - 325167: Make reserved # bind parameter char generic to enable native SQL pass through
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* 10/29/2010-2.2 Michael O'Brien
* - 325167: Make reserved # bind parameter char generic to enable native SQL pass through
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* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 05/31/2010-2.1 Guy Pelletier
* - 314941: multiple joinColumns without referenced column names defined, no error
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 09/03/2010-2.2 Guy Pelletier
* - 317286: DB column length not in sync between @Column and @JoinColumn
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 06/03/2011-2.3.1 Guy Pelletier
* - 347563: transient field/property in embeddable entity
* 04/09/2012-2.4 Guy Pelletier
* - 374377: OrderBy with ElementCollection doesn't work
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/ElementCollectionAccessor.java
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* Contributors:
* - rbarkhouse - 08 February 2012 - 2.3.3 - Initial implementation
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/CharacterEscapeHandlerWrapper.java
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* Contributors:
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)
* 04/05/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 3)
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column

******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/columns/TenantDiscriminatorColumnMetadata.java
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* Oracle - initial API and implementation from Oracle TopLink
* @author mobrien
* @since EclipseLink 1.1 enh# 248748
* 10/20/2008-1.1M4 Michael O'Brien
* - 248748: Add WebLogic 10.3 specific JMX MBean attributes and functions
* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/248748</link>
* 06/11/2008-1.1M5 Michael O'Brien
* - 248746: Add getModuleName() implementation and new getApplicationName()
* 01/27/2009-1.1.1 Michael O'Brien
* - 262583: removal of category arg get*EclipseLinkLogLevel functions - rev 3308
* 03/31/2009-1.1.1 Michael O'Brien
* - 270533: CCE on DefaultSessionLog cast narrowed for getLogFilename()
* 06/30/2010-2.1.1 Michael O'Brien
* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
* Move JMX MBean generic registration code up from specific platforms

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* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/weblogic/WebLogicRuntimeServices.java
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* Oracle - initial API and implementation from Oracle TopLink
* cdelahun - Bug 214534: added JMS Cache Coordination for publishing only

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/coordination/jms/JMSTopicTransportManager.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/coordination/jms/JMSTopicRemoteConnection.java
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* Contributors:
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 04/27/2010-2.1 Guy Pelletier
- 309856: MappedSuperclasses from XML are not being initialized properly
- 05/14/2010-2.1 Guy Pelletier
- 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
- 08/04/2010-2.1.1 Guy Pelletier
- 315782: JPA2 derived identity metadata processing validation doesn't account for autoboxing
- 01/25/2011-2.3 Guy Pelletier
- 333913: @OrderBy and <order-by/> without arguments should order by primary
- 03/24/2011-2.3 Guy Pelletier
- 337323: Multi-tenant with shared schema support (part 1)
- 04/05/2011-2.3 Guy Pelletier
- 337323: Multi-tenant with shared schema support (part 3)
- 07/03/2011-2.3.1 Guy Pelletier
- 348756: m_cascadeOnDelete boolean should be changed to Boolean
- 07/06/2011-2.3.1 Guy Pelletier
- 349906: NPE while using eclipselink in the application
- 25/05/2012-2.4 Guy Pelletier
- 354678: Temp classloader is still being used during metadata processing

******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/ORMetadata.java
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* Contributors:
* dmccann - July 28/2010 - 2.2 - Initial implementation
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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlClassExtractor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/xmlmodel/XmlProperties.java
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*
* Contributors:
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/mappings/EmbeddableMapping.java
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* - rbarkhouse - 24 February 2012 - 2.3.3 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jaxb/IDResolverWrapper.java
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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
*******************************************************************************/
* - 218084: Implement metadata merging functionality between mapping files
* 03/27/2009-2.0 Guy Pelletier
* - 241413: IPA 2.0 Add EclipseLink support for Map type attributes
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column

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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/converters/StructConverterMetadata.java
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*   Gordon Yorke - Initial Feature development
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 *  dclarke/tware - initial
 */

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlProperties.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlParameter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlNullPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlWriteTransformer.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlProperty.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlReadTransformer.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlTransformation.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlClassExtractor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlPaths.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlIsSetNullPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlWriteTransformers.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlAccessMethods.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlReadOnly.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlWriteOnly.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlCDATA.java

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/PersistenceResource.java
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* - rbarkhouse - 07 October 2011 - 2.4 - Initial implementation
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  jar/org/eclipse/persistence/jaxb/IDResolver.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/oxm/IDResolver.java
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*     Oracle - initial API and implementation from Oracle TopLink
*     05/16/2008-1.0M8 Guy Pelletier
*     - 218084: Implement metadata merging functionality between mapping files
*     08/27/2008-1.1 Guy Pelletier
*     - 211329: Add sequencing on non-id attribute(s) support to the EclipseLink-ORM.XML Schema
*     04/24/2009-2.0 Guy Pelletier
*     - 270011: JPA 2.0 MappedByld support
*     06/02/2009-2.0 Guy Pelletier
*     - 278768: JPA 2.0 Association Override Join Table
*     10/21/2009-2.0 Guy Pelletier
*     - 290567: mappedbyid support incomplete
*     04/27/2010-2.1 Guy Pelletier
*     - 309856: MappedSuperclasses from XML are not being initialized properly
*     08/04/2010-2.1.1 Guy Pelletier
*     - 315782: JPA2 derived identity metadata processing validation doesn't account for autoboxing

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* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/IdAccessor.java
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* Oracle - initial API and implementation from Oracle TopLink
* 02/11/2009-1.1 Michael O'Brien
* - 259993: As part 2) During mergeClonesAfterCompletion()
* If the acquire and release threads are different
* switch back to the stored acquire thread stored on the mergeManager.
*******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/sessions/MergeManager.java
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* Oracle - initial API and implementation from Oracle TopLink
* stardif - updates for Cascaded locking and inheritance
* 02/20/2009-1.1 Guy Pelletier
* - 259829: TABLE_PER_CLASS with abstract classes does not work
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)
* 04/05/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 3)
* 04/21/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 5)
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
**********************************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_165363999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/descriptors/ClassDescriptor.java
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* Oracle - initial API and implementation from Oracle TopLink
* Flavio Stutz - bug fix for getEntryAsURL
*********************************************************************************/

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  jar/org/eclipse/persistence/internal/jpa/deployment/URLArchive.java
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* tware - added to allow pluggage archive factory

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Contributors:
* dclarke - Metadata driven Dynamic Persistence

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Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* Sei Syvalta - Bug 330237 - Tables are created in unspecified order (DDL creation)
* 01/06/2011-2.3 Guy Pelletier
* - 312244: can't map optional one-to-one relationship using @PrimaryKeyJoinColumn
* 04/05/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 3)
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
* 31/05/2012-2.4 Guy Pelletier
* - 381196: Multitenant persistence units with a dedicated emf should allow for DDL generation.

*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/tools/schemaframework/DefaultTableGenerator.java
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* Oracle - initial API and implementation from Oracle TopLink
* dmccann - Nov 4/2008 - 1.1 - changed class to interface

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  jar/org/eclipse/persistence/sdo/helper/SDODataFactory.java
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* James Sutherland - initial API and implementation
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

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 * 03/19/2009-2.0 Michael O'Brien - 266912: JPA 2.0 Metamodel API (part
 * of the JSR-317 EJB 3.1 Criteria API)
 * 08/17/2010-2.2 Michael O'Brien
 * - 322585: Login the session on the first call to getMetamodel() or getCriteriaBuilder()
 * after EMF predeploy() completes. This will do a DB login that calls
 * initializeDescriptors() so we have real Classes and not just class names for
 * MappedSuperclass metamodel descriptors. This is provided for
 * implementations that use the metamodel before the 1st EntityManager creation.
 * Login will continue to only be called in EM deploy for users
 * that do not request the Metamodel
 * 11/17/2010-2.2 Guy Pelletier
 * - 329008: Support dynamic context creation without persistence.xml
 */

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  jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/RoundRobinPartitioningMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/HashPartitioningMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/ReplicationPartitioningMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/PinnedPartitioningMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/RangePartitionMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/PartitioningMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/AbstractPartitioningMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/ValuePartitionMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/UnionPartitioningMetadata.java
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping file
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 10/01/2008-1.1 Guy Pelletier
* - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
* 04/09/2010-2.1 Guy Pelletier
* - 307050: Add defaults for access methods of a VIRTUAL access type
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 12/01/2010-2.2 Guy Pelletier
* - 331234: xml-mapping-metadata-complete overriden by metadata-complete specification
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 07/03/2011-2.3.1 Guy Pelletier
* - 348756: m_cascadeOnDelete boolean should be changed to Boolean
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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* 12/02/2010-2.2 Guy Pelletier
* - 251554: ExcludeDefaultMapping annotation needed
******************************************************************************/
Open Source Used In CKC - Time Series Data Engine 1.2.2.4

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/ExcludeDefaultMappings.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/MultitenantPrimaryKeyMapping.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/tools/schemaframework/StoredProcedureDefinition.java
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* rbarkhouse - 2011 April 11 - 2.3 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse.persistence/oxm/annotations/XmlVirtualAccessMethods.java

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  jar/org/eclipse.persistence/eclipselink_persistence_map_1.0.xsd
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/toplink-object-persistence_11_1_1.xsd

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* tware - added in fix for bug 277550
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  jar/org/eclipse/persistence/annotations/TransientCompatibleAnnotations.java
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* Contributors:
  * bdoughan - August 5/2009 - 2.0 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jaxb/JAXBElementRootConverter.java
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  jar/org/eclipse/persistence/jpql/parser/CastExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpql/parser/TableVariableDeclarationBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpql/parser/TableExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpql/parser/DatabaseTypeQueryBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/pql/parser/InternalColumnExpressionBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/pql/parser/UnionClauseBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/pql/EclipseLinkBasicRefactoringTool.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/pql/ExtractExpressionBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/pql/BasicRefactoringTool.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/pql/DefaultBasicRefactoringTool.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/RegexpExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/TableVariableDeclaration.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/TableExpressionBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/InExpressionItemBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/ParameterTypeVisitor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/TableExpressionItemBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/FunctionItemBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/ITypeHelper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/InExpressionItemBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/FunctionExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/GenericQueryBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/JoinClause.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/JoinClauseBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/AndExpressionItemBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/OrExpressionItemBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/NotExpressionItemBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/CollectionValuedPathExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/FunctionExpressionStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/DefaultBasicRefactoringTool.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/OnClause.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/FunctionExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/CollectionValuedPathExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/DefaultParameterTypeVisitor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/CollectionValuedPathExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/parser/FunctionExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/DefaultParameterTypeVisitor.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/pqql/parser/TableExpressionFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/pqql/parser/LikeExpressionEscapeCharacterBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/pqql/parser/OnClauseBNF.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/pqql/parser/DatabaseTypeFactory.java
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 *      Oracle - initial API and implementation from Oracle TopLink 
 * 02/08/2012-2.4 Guy Pelletier 
 * - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls 
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* Oracle - initial API and implementation from Oracle TopLink
* Vikram Bhatia - added method for releasing temporary LOBs after conversion
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  jar/org/eclipse/persistence/platform/database/oracle/Oracle8Platform.java
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* tware - March 25/2008 - 1.0M6 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/CopyPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/CloneCopyPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/InstantiationCopyPolicy.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/ChoiceUnmarshalContext.java

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* Contributors:
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 01/25/2011-2.3 Guy Pelletier
* - 333913: @OrderBy and <order-by/> without arguments should order by primary

/******************************************************************************/
/**
 * INTERNAL:
 * Return the attribute name of this accessible object. Right now it's just
 * the location. This method is currently never called and is implemented
 * only to satisfy the abstract definition. An attribute name is very
 * important on the metadata annotated element side and describes the
 * attribute the metadata is tied to. This avoids unnecessary casting when
 * initializing XML objects. If in the future, some logging message (or
 * something else would like to use this method, feel free to modify it to
 * return whatever is necessary (and of course, change this comment to
 * reflect the new dependency).
 */

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataFile.java

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 * Oracle - initial API and implementation from Oracle TopLink
 * 08/23/2010-2.2 Michael O'Brien
 * - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
 * warn if expected "._persistence_" .vh" method not found
 * instead of throwing NPE during deploy validation.
 * Note: SDO overrides this class so an override of getMethodReturnType
 * will also need an override in SDO.
*******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/descriptors/MethodAttributeAccessor.java
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* Contributors:
* ailitchev - 2010/08/19
* Bug 322960 - TWO TESTS IN CUSTOMFEATURESJUNITTESTSUITE FAILED WITH 11.2.0.2
* DRIVER
********************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/helper/JDK16Platform.java
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* mmacivor - 2.4.2 Initial Implementation
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  jar/org/eclipse/persistence/internal/oxm/ByteArraySource.java
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* Contributors:
*  03/24/2011-2.3 Guy Pelletier
*  - 337323: Multi-tenant with shared schema support (part 1)
*  08/18/2011-2.3.1 Guy Pelletier
*  - 355093: Add new 'includeCriteria' flag to Multitenant metadata
****************************************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/annotations/Multitenant.java
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  jar/org/eclipse/persistence/jpa/JpaCriteriaBuilder.java
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*  03/19/2009-2.0 dclarke - initial API start
*  06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
*     of the Metamodel implementation for EclipseLink 2.0 release involving
*     Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
*  - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)
*  11/05/2009-2.0 mobrien - DI 86: MapKey support when only generics
*     are used to determine the keyType for an IdClass that used an embeddable
* 11/10/2009-2.0 mobrien - DI 98: Use keyMapping on MappedKeyMappedContainerPolicy
* keep workaround for bug# 294765 for Basic keyType when MapKey annotation not specified.
* keep workaround for bug# 294811 for Entity, Embeddable, Transient keyType support
* when MapKey name attribute not specified (MapContainerPolicy)
* add BasicMap support via DirectMapContainerPolicy
* 13/10/2009-2.0 mobrien - 294765 - fix allows removal of workaround for
* when MapKey annotation not specified
* 06/14/2010-2.1 mobrien - 314906: getJavaType should return the
* collection javaType C in <X,C,V) of <X, Map<K,V>, V> instead off the elementType V

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metamodel/MapAttributeImpl.java
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* Oracle - initial API and implementation from Oracle TopLink
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)
* 05/24/2011-2.3 Guy Pelletier
* - 345962: Join fetch query when using tenant discriminator column fails.
* 08/18/2011-2.3.1 Guy Pelletier
* - 355093: Add new 'includeCriteria' flag to Multitenant metadata
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/descriptors/DescriptorQueryManager.java
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* Matt MacIvor - 2.3 - initial implementation
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 06/20/2008-1.0 Guy Pelletier
* - 232975: Failure when attribute type is generic
* 08/27/2008-1.1 Guy Pelletier
* - 211329: Add sequencing on non-id attribute(s) support to the EclipseLink-ORM.XML Schema
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 02/25/2009-2.0 Guy Pelletier
* - 265359: JPA 2.0 Element Collections - Metadata processing portions
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/03/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedById support
* 06/02/2009-2.0 Guy Pelletier
* - 278768: JPA 2.0 Association Override Join Table
* 06/25/2009-2.0 Michael O'Brien
* - 266912: change MappedSuperclass handling in stage2 to pre process accessors
in support of the custom descriptors holding mappings required by the Metamodel.
We handle undefined parameterized generic types for a MappedSuperclass defined
Map field by returning Void in this case.
* 09/29/2009-2.0 Guy Pelletier
* - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
* 10/21/2009-2.0 Guy Pelletier
* - 290567: mappedbyid support incomplete
* 11/06/2009-2.0 Guy Pelletier
* - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
* 01/22/2010-2.0.1 Guy Pelletier
* - 294361: incorrect generated table for element collection attribute overrides
* 01/26/2010-2.0.1 Guy Pelletier
* - 299893: @MapKeyClass does not work with ElementCollection
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 03/29/2010-2.1 Guy Pelletier
* - 267217: Add Named Access Type to EclipseLink-ORM
* 04/09/2010-2.1 Guy Pelletier
* - 307050: Add defaults for access methods of a VIRTUAL access type
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 05/19/2010-2.1 Guy Pelletier
* - 313574: Lower case primary key column association does not work when upper casing flag is set to true
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 07/05/2010-2.1.1 Guy Pelletier
* - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
* 08/20/2010-2.2 Guy Pelletier
* - 323252: Canonical model generator throws NPE on virtual 1-1 or M-1 mapping
* 09/03/2010-2.2 Guy Pelletier
* - 317286: DB column length not in sync between @Column and @JoinColumn
* 10/27/2010-2.2 Guy Pelletier
* - 328114: @AttributeOverride does not work with nested embeddables having attributes of the same name
* 12/01/2010-2.2 Guy Pelletier
* - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/MappingAccessor.java
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*
*Contributors:
*Oracle - initial API and implementation from Oracle TopLink
*14/05/2012-2.4 Guy Pelletier
*376603: Provide for table per tenant support for multitenant applications
*******************************************************************************

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*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/structures/ObjectRelationalDataTypeDescriptor.java
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/OneToOneMapping.java
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/XMLDescriptor.java
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sessions/server/ClientSession.java
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*Oracle - initial API and implementation from Oracle TopLink
*05/16/2008-1.0M8 Guy Pelletier
*218084: Implement metadata merging functionality between mapping files
*07/15/2008-1.0.1 Guy Pelletier
*240679: MappedSuperclass Id not picked when on get() method accessor
*06/29/2009-2.0 Michael O'Brien
*266912: change MappedSuperclass handling in stage2 to pre process accessors
*in support of the custom descriptors holding mappings required by the Metamodel
*getClassForName is now public and referenced by MappingAccessor.getMapKeyReferenceClass()
*11/06/2009-2.0 Guy Pelletier
- 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/MetadataHelper.java

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jar/org/eclipse/persistence/internal/jpa/jpql/Declaration.java

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* dmccann - September 15/2009 - 1.2 - Initial implementation

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jar/org/eclipse/persistence/sdo/SDOHelper.java

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* 05/05/2011-2.3 Chris Delahunt
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* 01/19/2010-2.1 Guy Pelletier
* - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 08/27/2008-1.1 Guy Pelletier
* - 211329: Add sequencing on non-id attribute(s) support to the EclipseLink-ORM.XML Schema
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 10/01/2008-1.1 Guy Pelletier
* - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedByld support
* 09/29/2009-2.0 Guy Pelletier
* - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToMany
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 03/29/2010-2.1 Guy Pelletier
* - 267217: Add Named Access Type to EclipseLink-ORM
* 04/09/2010-2.1 Guy Pelletier
* - 307050: Add defaults for access methods of a VIRTUAL access type
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 05/14/2010-2.1 Guy Pelletier
* - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
* 08/19/2010-2.2 Guy Pelletier
* - 282733: Add plural converter annotations
* 09/03/2010-2.2 Guy Pelletier

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- 317286: DB column length not in sync between @Column and @JoinColumn
- 09/16/2010-2.2 Guy Pelletier
- 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
- 12/01/2010-2.2 Guy Pelletier
- 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
- 01/04/2011-2.3 Guy Pelletier
- 330628: @PrimaryKeyJoinColumn(...) is not working equivalently to @JoinColumn(..., insertable = false, updatable = false)
- 01/25/2011-2.3 Guy Pelletier
- 333913: @OrderBy and <order-by/> without arguments should order by primary
- 03/24/2011-2.3 Guy Pelletier
- 337323: Multi-tenant with shared schema support (part 1)
- 04/05/2011-2.3 Guy Pelletier
- 337323: Multi-tenant with shared schema support (part 3)
- 07/11/2011-2.4 Guy Pelletier
- 343632: Can't map a compound constraint because of exception:
  - The reference column name [y] mapped on the element [field x]
  - does not correspond to a valid field on the mapping reference
- 11/10/2011-2.4 Guy Pelletier
- 357474: Address primaryKey option from tenant discriminator column

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/accessors/MetadataAccessor.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/platform/database/oracle/ucp/UCPDataPartitioningCallback.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/platform/database/oracle/ucp/GridLinkDataPartitioningCallback.java
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  * cdelahun - Bug 214534: added as a public helper for JMS RCM message processing

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  jar/org/eclipse/persistence/sessions/coordination/jms/JMSPublishingHelper.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/asm/Item.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/asm/tree/TryCatchBlockNode.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/asm/util/CheckSignatureAdapter.java
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jar/org/eclipse/persistence/internal/libraries/asm/ClassReader.java
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/libraries/asm/tree/analysis/Value.java
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* Oracle - initial API and implementation from Oracle TopLink
* @author mobrien
* @since EclipseLink 1.1 enh# 248748
* 10/20/2008-1.1M4 Michael O'Brien
* - 248748: Add WebLogic 10.3 specific JMX MBean attributes and functions
* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/248748</link>
* 27/01/2009-1.1.1 Michael O'Brien
* - 262583: removal of category arg get*EclipseLinkLogLevel functions - rev 3308
* 06/30/2010-2.1.1 Michael O'Brien
* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
* Move JMX MBean generic registration code up from specific platforms
* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
******************************************************************************/

Found in path(s):
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/services/weblogic/MBeanWebLogicRuntimeServicesMBean.java
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* Contributors:
* James Sutherland (Oracle) - initial API and implementation
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
******************************************************************************/
Open Source Used In CKC - Time Series Data Engine 1.2.2.4

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/RangePartition.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/RangePartitioningPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/partitioning/ValuePartitioningPolicy.java

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* Oracle - initial API and implementation from Oracle TopLink
* cdelahun - Bug 214534: added message for JMSPublishingHelper error checking
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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/exceptions/i18n/RemoteCommandManagerExceptionResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/exceptions/RemoteCommandManagerException.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/asm/xml/asm-xml.dtd
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*
* Contributors:
*     ailitchev - Uni-directional OneToMany
*     07/19/2011-2.2.1 Guy Pelletier
*     - 338812: ManyToMany mapping in aggregate object violate integrity constraint on deletion
*******************************************************************************

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/UnidirectionalOneToManyMapping.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/jpaQueryBuilder.java
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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 06/02/2009-2.0 Guy Pelletier
* - 278768: JPA 2.0 Association Override Join Table
* 09/29/2009-2.0 Guy Pelletier
* - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
* 11/02/2009-2.0 Michael O'Brien
* - 266912: JPA 2.0 Metamodel support for 1:m as 1:1 in DI 96
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 09/03/2010-2.2 Guy Pelletier
* - 317286: DB column length not in sync between @Column and @JoinColumn
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 05/17/2012-2.3.3 Arron Ferguson
* - 379829: NPE Thrown with OneToOne Relationship
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* Contributors:
*     Oracle - initial API and implementation from Oracle TopLink
*     egwin  - Changed buildNumber to buildDate. Added buildRevision,
*              buildType, getBuildDate(), getBuildRevision(), getBuildType().
*              getVersionString(), printVersionString(), and main()
******************************************************************************/

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* Contributors:
*     rbarkhouse - 16 Jan 2009 - 1.1 - Initial implementation
******************************************************************************/

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* 04/30/2009-2.0 Michael O'Brien
* - 266912: JPA 2.0 Metamodel API (part of Criteria API)
  * Add Set<RelationalDescriptor> mappedSuperclassDescriptors
  * to support the Metamodel API
* 06/17/2009-2.0 Michael O'Brien
* - 266912: change mappedSuperclassDescriptors Set to a Map
  * keyed on MetadataClass - avoiding the use of a hashCode/equals
  * override on RelationalDescriptor, but requiring a contains check prior to a put
* 09/23/2009-2.0 Michael O'Brien
* - 266912: Add metamodelIdClassMap to store IdClass types for exclusive
  * use by the IdentifiableTypeImpl class in the JPA 2.0 Metamodel API
* 06/30/2011-2.3.1 Guy Pelletier
* - 341940: Add disable/enable allowing native queries
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
* 31/05/2012-2.4 Guy Pelletier
* - 381196: Multitenant persistence units with a dedicated emf should allow for DDL generation.

******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/sessions/Project.java
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  Oracle - initial API and implementation from Oracle TopLink
tware - update version number to 2.0
  pkrogh- update version number to 2.1
  agoerler - add Net weaver support
*******************************************************************************
-->

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  jar/org/eclipse/persistence/eclipselink_sessions_2.1.xsd
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/compiler/JAXBMetadataLogger.java
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*     dmccann - Nov 4/2008 - 1.1 - Initial implementation
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  jar/org/eclipse/persistence/sdo/helper/delegates/SDODataFactoryDelegate.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/sdo/helper/delegates/SDODataFactoryDelegator.java
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*     03/24/2011-2.3 Guy Pelletier
*       - 337323: Multi-tenant with shared schema support (part 1)
*     09/09/2011-2.3.1 Guy Pelletier
*       - 356197: Add new VPD type to MultitenantType
*     14/05/2012-2.4 Guy Pelletier
*       - 376603: Provide for table per tenant support for multitenant applications
*******************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/annotations/MultitenantType.java
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*    Blaise Doughan = 2.1 - Initial implementation
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  jar/org/eclipse/persistence/internal/jaxb/many/ArrayValue.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/oxm/record/XMLReaderAdapter.java
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*    Denise Smith - 2.3.3
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/oxm/record/namespaces/MapNamespacePrefixMapper.java
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* tware - initial

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* 03/19/2009-2.0 dclarke - initial API start
* 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
  of the Metamodel implementation for EclipseLink 2.0 release involving
  Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
* - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)
* 29/10/2009-2.0 mobrien - m:1 and 1:m relationships require special handling
  in their internal m:m and 1:1 database mapping representations.
* http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_96:_20091019:_Attribute.getPersiste
ntAttributeType.28.29_treats_ManyToOne_the_same_as_OneToOne
* 16/06/2010-2.2 mobrien - 316991: Attribute.getJavaMember() requires reflective getMethod call
  when only getMethodName is available on accessor for attributes of Embeddable types.
* http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_95:_20091017:_Attribute.getJavaMe
ember.28.29_returns_null_for_a_BasicType_on_a_MappedSuperclass_because_of_an_uninitialized_accessor
* 09/08/2010-2.2 mobrien - 322166: If attribute is defined on a lower level MappedSuperclass (and not on a
  superclass)
* - do not attempt a reflective call on a superclass
* - see design issue #25
* http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_25:_20090616:_Inherited_parameteri
zed_generics_for_Element_Collections_.28Basic.29
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
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* Oracle - initial API and implementation from Oracle TopLink
  * 05/16/2008-1.0M8 Guy Pelletier
  * - 218084: Implement metadata merging functionality between mapping file
  * 05/23/2008-1.0M8 Guy Pelletier
  * - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
  * 07/22/2008-1.1 Guy Pelletier
  * - 237315: Support converters on attribute mappings in the eclipselink orm.xml schema
  * 08/27/2008-1.1 Guy Pelletier
  * - 211329: Add sequencing on non-id attribute(s) support to the EclipseLink-ORM.XML Schema
  * 09/23/2008-1.1 Guy Pelletier
  * - 241651: JPA 2.0 Access Type support
  * 02/06/2009-2.0 Guy Pelletier
  * - 248293: JPA 2.0 Element Collections (part 2)
  * 02/25/2009-2.0 Guy Pelletier
  * - 265359: JPA 2.0 Element Collections - Metadata processing portions
  * 03/27/2009-2.0 Guy Pelletier
  * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
  * 04/03/2009-2.0 Guy Pelletier
  * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
  * 06/09/2009-2.0 Guy Pelletier
  * - 249037: JPA 2.0 persisting list item index
  * 06/16/2009-2.0 Guy Pelletier
  * - 277039: JPA 2.0 Cache Usage Settings
  * 11/06/2009-2.0 Guy Pelletier
  * - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
  * 12/2/2009-2.1 Guy Pelletier
  * - 296289: Add current annotation metadata support on mapped superclasses to EclipseLink-ORM.XML Schema
  * 12/18/2009-2.1 Guy Pelletier
  * - 211323: Add class extractor support to the EclipseLink-ORM.XML Schema
  * 01/19/2010-2.1 Guy Pelletier
* - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 04/09/2010-2.1 Guy Pelletier
* - 307050: Add defaults for access methods of a VIRTUAL access type
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 05/04/2010-2.1 Guy Pelletier
* - 309373: Add parent class attribute to EclipseLink-ORM
* 09/16/2010-2.2 Guy Pelletier
* - 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
* 10/28/2010-2.2 Guy Pelletier
* - 3223850: Primary key metadata issues
* 01/25/2011-2.3 Guy Pelletier
* - 333913: @OrderBy and <order-by/> without arguments should order by primary
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 03/28/2011-2.3 Guy Pelletier
* - 341152: From XML cache interceptor and query redirector metadata don't support package specification
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 8)
* 07/03/2011-2.3.1 Guy Pelletier
* - 348756: m_cascadeOnDelete boolean should be changed to Boolean
* 08/18/2011-2.3.1 Guy Pelletier
* - 355093: Add new 'includeCriteria' flag to Multitenant metadata
* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/xml/XMLEntityMappingsMappingProject.java

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  * 10/29/2010-2.2 Michael O'Brien
  * - 325167: Make reserved # bind parameter char generic to enable native SQL pass through
  * 05/24/2011-2.3 Guy Pelletier
  * - 345962: Join fetch query when using tenant discriminator column fails.

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/databaseaccess/DatasourceCall.java
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* tware - initial API check-in for MappedKeyMapContainerPolicy

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  jar/org/eclipse/persistence/mappings/foundation/MapKeyMapping.java
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* rbarkhouse - May 26 2008 - 1.0M8 - Initial implementation
* rbarkhouse - July 14 2008 - 1.1 - Modified to enable wrappers to have multiple associated QNames

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* Oracle - initial API and implementation from Oracle TopLink
*
* 05/28/2008-1.0M8 Andrei Ilitchev
* - 224964: Provide support for Proxy Authentication through JPA.
* Added setProperties method to be used in case properties couldn't be passed to createEM method.
* The properties now set to the uow's parent - not to the uow itself.
* In case there's no active transaction, close method now releases uow.
* UowImpl was amended to allow value holders instantiation even after it has been released,
* the parent ClientSession is released, too.
* 03/19/2009-2.0 Michael O'Brien
* - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)
* 07/13/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/EntityManagerImpl.java
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* mmacivor - August 4th/2010 - 2.2 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/xmlmodel/XmlTransformation.java
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 * Contributors:
 * bdoughan - May 6/2008 - 1.0M7 - Initial implementation
 *********************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/sdo/types/SDOChangeSummaryType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/sdo/types/SDOOBJECTType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/sdo/types/SDODatatype.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/sdo/types/SDOPropertyType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/sdo/types/SDOOpenSequencedType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/sdo/types/SDOXMLHelperLoadOptionsType.java

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 *
 * Contributors:
 * 12/12/2008-1.1 Guy Pelletier
 * - 249860: Implement table per class inheritance support.
 *********************************************/
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* Contributors:
*     Andrei Ilitchev (Oracle), March 7, 2008
*     - New file introduced for bug 211300.
******************************************************************************/

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* Contributors:
*     James Sutherland - initial impl
*     04/27/2010-2.1 Guy Pelletier
*     - 309856: MappedSuperclasses from XML are not being initialized properly
*     06/18/2010-2.2 Guy Pelletier
*     - 300458: EclipseLink should throw a more specific exception than NPE
*     09/03/2010-2.2 Guy Pelletier
*     - 317286: DB column length not in sync between @Column and @JoinColumn
*     10/28/2010-2.2 Guy Pelletier
******************************************************************************/
* - 3223850: Primary key metadata issues
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/columns/PrimaryKeyMetadata.java
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 07/15/2010-2.2 Guy Pelletier
* -311395 : Multiple lifecycle callback methods for the same lifecycle event
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/listeners/EntityClassListener.java
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* Oracle - initial API and implementation from Oracle TopLink
* 05/24/2011-2.3 Guy Pelletier
* - 345962: Join fetch query when using tenant discriminator column fails.
******************************************************************************/

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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* 08/23/2010-2.2 Michael O'Brien
* - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
* warn if expected "_persistence_*_vh" method not found
* instead of throwing NPE during deploy validation.
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/mappings/ForeignReferenceMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/mappings/foundation/AbstractTransformationMapping.java
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* Contributors:
* Blaise Doughan - 2.4.0 - initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/JAXBContextProperties.java
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* arnaud nauwynck, tware - Bug 274975 - ensure custom sql calls are only translated once

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/queries/SQLCall.java
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedByld support
* 06/09/2009-2.0 Guy Pelletier
* - 249037: JPA 2.0 persisting list item index
* 06/16/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
* 01/19/2010-2.1 Guy Pelletier
* - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema
* 06/18/2010-2.2 Guy Pelletier
* - 300458: EclipseLink should throw a more specific exception than NPE
* 07/16/2010-2.2 Guy Pelletier
* - 260296: mixed access with no Transient annotation does not result in error
* 07/23/2010-2.2 Guy Pelletier
* - 237902: DDL GEN doesn't qualify SEQUENCE table with persistence unit schema
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
* 10/28/2010-2.2 Guy Pelletier
* - 3223850: Primary key metadata issues
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 04/05/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 3)
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 8)
* 07/11/2011-2.4 Guy Pelletier
* - 343632: Can't map a compound constraint because of exception:
*     The reference column name [y] mapped on the element [field x]
*     does not correspond to a valid field on the mapping reference
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications

******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/MetadataLogger.java
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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping file

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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/xml/XMLEntityMappingsWriter.java
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* Oracle - initial API and implementation from Oracle TopLink
* tware - 1.0RC1 - refactor for OSGi
* zhao jianyong - Bug 324627 - JarList stream is not explicitly closed after use in JavaSECMPInitializer

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/deployment/JavaSECMPInitializer.java
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* mmacivor - June 24/2009 - 1.0 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/DomToXMLStreamWriter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/record/XMLRecordStreamWriterRecord.java
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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* 10/20/2008-1.1M4 Michael O'Brien
* - 248748: Add WebLogic 10.3 specific JMX MBean attributes and functions
* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/248748</link>
* 11/06/2008-1.1M5 Michael O'Brien
* - 248746: Add getModuleName() implementation and new getApplicationName()
* 05/07/2009-1.1.1 Dave Brosius
* - 265755: [PATCH] Set application name correctly
* 06/30/2010-2.1.1 Michael O'Brien
* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
* Move JMX MBean generic registration code up from specific platforms
* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
* 10/18/2010-2.1.2 Michael O'Brien
* - 328006: Refactor WebLogic MBeanServer registration to use active
* WLS com.bea server when multiple instances returned
* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513#DI_4:_20100624:_Verify_correct_MBeanServer_available_when_running_multiple_MBeanServer_Instances</link>
* 01/01/2011-2.2 Michael O'Brien
* - 333160: ModuleName string extraction code does not handle -1 not found index in 1 of 3 cases
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/wls/WebLogic_10_Platform.java
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* mmacivor - September 18/2009 - 2.0 - Initial implementation
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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/XMLEventReaderInputSource.java
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/*******************************************************************************/
- 06/30/2010-2.1.1 Michael O'Brien
- 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
- Move JMX MBean generic registration code up from specific platforms
- see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>

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- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/server/was/WebSpherePlatform.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/server/jboss/JBossPlatform.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/server/glassfish/GlassfishPlatform.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/server/wls/WebLogicPlatform.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/server/sunas/SunAS9ServerPlatform.java
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  * Contributors:
  * Oracle - initial API and implementation from Oracle TopLink
  * 07/13/2009-2.0 Guy Pelletier
  * - 277039: JPA 2.0 Cache Usage Settings
  * corteggiano, Frank Schwarz, Tom Ware - Fix for bug Bug 320254 - EL 2.1.0 JPA: Query with hint
eclipselink.batch
  * and org.eclipse.persistence.exceptions.QueryException.queryHintNavigatedNonExistantRelationship
  * 10/29/2010-2.2 Michael O'Brien
  * - 325167: Make reserved # bind parameter char generic to enable native SQL pass through
  * 06/30/2011-2.3.1 Guy Pelletier
  * - 341940: Add disable/enable allowing native queries

Found in path(s):
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/QueryHintsHandler.java
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* Contributors:
*     tware - initial API check-in for MappedKeyMapContainerPolicy
*     14/05/2012-2.4 Guy Pelletier
*     - 376603: Provide for table per tenant support for multitenant applications
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/mappings/foundation/MapComponentMapping.java
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*     bdoughan - July 29/2009 - 2.0 - Initial implementation
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  jar/org/eclipse/persistence/internal/jaxb/JAXBElementConverter.java
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*     03/26/2008-1.0M6 Guy Pelletier
*     - 211302: Add variable 1-1 mapping support to the EclipseLink-ORM.XML Schema

Open Source Used In CKC - Time Series Data Engine 1.2.2.4 900
* 05/16/2008-1.0M8 Guy Pelletier
  - 218084: Implement metadata merging functionality between mapping files
* 02/06/2009-2.0 Guy Pelletier
  - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
  - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 05/1/2009-2.0 Guy Pelletier
  - 249033: JPA 2.0 Orphan removal
* 09/29/2009-2.0 Guy Pelletier
  - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
* 04/27/2010-2.1 Guy Pelletier
  - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
  - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 09/03/2010-2.2 Guy Pelletier
  - 317286: DB column length not in sync between @Column and @JoinColumn
* 01/25/2011-2.3 Guy Pelletier
  - 333913: @OrderBy and <order-by/> without arguments should order by primary
* 03/24/2011-2.3 Guy Pelletier
  - 337323: Multi-tenant with shared schema support (part 1)
* 04/05/2011-2.3 Guy Pelletier
  - 337323: Multi-tenant with shared schema support (part 3)
******************************************************************************/

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  /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/VariableOneToOneAccessor.java
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/**
 * INTERNAL:
 * Indicate whether app. server should unwrap connection
 * to use lob locator.
 * No need to unwrap connection because
 * writeLob method doesn't use oracle proprietary classes.
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* dmccann - Mar 2/2009 - 2.0 - Initial implementation
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* mmacivor - June 11/2008 - 1.0 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpql/Resolver.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpql/ResolverVisitor.java
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* dclarke, mnorman - Dynamic Persistence
*   (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)
*
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
*******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/dynamic/DynamicTypeBuilder.java
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  * tware - added for EclipseLink 2.0 release
  * 06/30/2010-2.1.1 Michael O'Brien
  * - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
    Move JMX MBean generic registration code up from specific platforms
  * see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
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  jar/org/eclipse/persistence/platform/server/was/WebSphere_7_Platform.java
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* - 218084: Implement metadata merging functionality between mapping files
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
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  jar/org/eclipse/persistence/internal/jpa/metadata/columns/AttributeOverrideMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedQueryMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/columns/OverrideMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/converters/ConversionValueMetadata.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/osgi/PersistenceProvider.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/coordination/TransportManager.java

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* Oracle - initial API and implementation from Oracle TopLink
* 17/10/2008-1.1  Michael O'Brien
* - 251005: The default JNDI InitialContextFactory is modified from
* OC4J: oracle.j2ee.rmi.RMIIInitialContextFactory to
* WebLogic: weblogic.jndi.WLInitialContextFactory
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/descriptors/PersistenceObjectInstantiationPolicy.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/osgi/PersistenceProvider.java

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* tware, ssmith - OSGi Persistence provider
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* tware, ssmith - OSGi Persistence provider
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*
* Contributors:
* 01/19/2010-2.1 Guy Pelletier
*   - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema
* 04/27/2010-2.1 Guy Pelletier
*   - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
*   - 337323: Multi-tenant with shared schema support (part 1)
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/FetchAttributeMetadata.java
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* mmacivor - August 22/2008 - 1.0 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/xml/DefaultErrorHandler.java
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*******************************************************************************
* Mark Wolochuk - Bug 321041 ConcurrentModificationException on getFromIdentityMap() fix

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/identitmaps/IdentityMapManager.java
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* Contributors:
*  11/06/2009-2.0 Guy Pelletier
*   - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
*  04/27/2010-2.1 Guy Pelletier
*   - 309856: MappedSuperclasses from XML are not being initialized properly
*  06/14/2010-2.2 Guy Pelletier
*   - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
*  03/24/2011-2.3 Guy Pelletier
*   - 337323: Multi-tenant with shared schema support (part 1)
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/mappings/MapKeyMetadata.java
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/**
* The <code>RecordConverter</code> interface allows conversion of an adapter
* specific record. This can be used with the <code>EISPlatform</code> to allow
* user code to convert between the JCA-CCI Record used by the adapter and
* EclipseLink. This can also be used to convert a proprietary adapter record
* format or contents into XML, Mapped or Indexed data.
*
* @author James
* @since OracleAS TopLink 10<i>g</i> (10.0.3)
*
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* Oracle - initial API and implementation
* 03/24/2011-2.3 Guy Pelletier
* 337323: Multi-tenant with shared schema support (part 1)
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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* 218084: Implement metadata merging functionality between mapping files
* 03/08/2010-2.1 Guy Pelletier
* 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
*******************************************************************************/
* 01/25/2011-2.3 Guy Pelletier
* - 333913: @OrderBy and <order-by/> without arguments should order by primary
******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataAccessibleObject.java
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* Oracle - initial API and implementation from Oracle TopLink
* ailitchev - Bug 244124 in 2.1 - Add AttributeGroup for nesting and LoadGroup support
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* tware - add aliasing to AggregateNodes
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jar/org/eclipse/persistence/internal/jpa/parsing/AliasableNode.java
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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
* 06/30/2011-2.3.1 Guy Pelletier
* - 341940: Add disable/enable allowing native queries
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
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* Contributors:
* 03/19/2009-2.0 dclarke - initial API start
* 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
* of the Metamodel implementation for EclipseLink 2.0 release involving
* Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
* - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)
*******************************************************************************/
Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/EmbeddableTypeImpl.java
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*     James Sutherland - initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/xml/ORMContentHandler.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/BatchFetchType.java
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*     mmacivor November 17/2009 - 2.0 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/TypeMappingInfo.java
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*   bdoughan - Jan 27/2009 - 1.1 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
   jar/org/eclipse/persistence/sdo/helper/jaxb/JAXBHelperContext.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
   jar/org/eclipse/persistence/sdo/helper/jaxb/JAXBDataFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
   jar/org/eclipse/persistence/sdo/helper/jaxb/JAXBXMLHelper.java
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*   01/28/2009-2.0 Guy Pelletier
*     - 248293: JPA 2.0 Element Collections (part 1)
*   02/06/2009-2.0 Guy Pelletier
*     - 248293: JPA 2.0 Element Collections (part 2)
*   02/25/2009-2.0 Guy Pelletier
*     - 265359: JPA 2.0 Element Collections - Metadata processing portions
*   03/27/2009-2.0 Guy Pelletier
*     - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
*   06/02/2009-2.0 Guy Pelletier
*     - 278768: JPA 2.0 Association Override Join Table
*   11/06/2009-2.0 Guy Pelletier
*     - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
*   03/08/2010-2.1 Guy Pelletier
*     - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
*   03/29/2010-2.1 Guy Pelletier
*     - 267217: Add Named Access Type to EclipseLink-ORM
*   04/27/2010-2.1 Guy Pelletier
*     - 309856: MappedSuperclasses from XML are not being initialized properly
*   12/30/2010-2.3 Guy Pelletier
*     - 312253: Descriptor exception with Embeddable on DDL gen
*   03/24/2011-2.3 Guy Pelletier
*     - 337323: Multi-tenant with shared schema support (part 1)
*   07/03/2011-2.3.1 Guy Pelletier
*     - 348756: m_cascadeOnDelete boolean should be changed to Boolean
*   25/05/2012-2.4 Guy Pelletier
*     - 354678: Temp classloader is still being used during metadata processing
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* 06/30/2010-2.1.1 Michael O'Brien
* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
* Move JMX MBean generic registration code up from specific platforms
* add new isRuntimeServicesEnabledDefault()
* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
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jar/org/eclipse/persistence/platform/server/ServerPlatform.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/platform/server/ServerPlatformBase.java

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 05/23/2008-1.0M8 Guy Pelletier
* - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
*  - 270011: JPA 2.0 MappedByld support
* 06/16/2009-2.0 Guy Pelletier
*  - 277039: JPA 2.0 Cache Usage Settings
* 06/25/2009-2.0 Michael O'Brien
*  - 266912: change MappedSuperclass handling in stage2 to pre process accessors
* in support of the custom descriptors holding mappings required by the Metamodel
* 09/24//2009-2.0 Michael O'Brien
*  - 266912: In initIdClass() store IdClass names for use by the Metamodel API
* 10/21/2009-2.0 Guy Pelletier
*  - 290567: mappedbyid support incomplete
* 12/2/2009-2.1 Guy Pelletier
*  - 296289: Add current annotation metadata support on mapped superclasses to EclipseLink-ORM.XML
* Schema
* 01/19/2010-2.1 Guy Pelletier
*  - 211322: Add fetch-group(s) support to the EclipseLink-ORM.XML Schema
* 05/04/2010-2.1 Guy Pelletier
*  - 309373: Add parent class attribute to EclipseLink-ORM
* 06/01/2010-2.1 Guy Pelletier
*  - 315195: Add new property to avoid reading XML during the canonical model generation
* 06/09/2010-2.0.3 Guy Pelletier
*  - 313401: shared-cache-mode defaults to NONE when the element value is unrecognized
* 06/14/2010-2.2 Guy Pelletier
*  - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 06/22/2010-2.2 Guy Pelletier
*  - 308729: Persistent Unit deployment exception when mappedsuperclass has no annotations but has lifecycle callbacks
* 07/05/2010-2.1.1 Guy Pelletier
*  - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
* 08/04/2010-2.1.1 Guy Pelletier
*  - 315782: JPA2 derived identity metadata processing validation doesn't account for autoboxing
* 10/15/2010-2.2 Guy Pelletier
*  - 322008: Improve usability of additional criteria applied to queries at the session/EM
* 10/28/2010-2.2 Guy Pelletier
*  - 3223850: Primary key metadata issues
* 12/01/2010-2.2 Guy Pelletier
*  - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
* 03/08/2011-2.3 Guy Pelletier
*  - 337323: Multi-tenant with shared schema support
* 03/24/2011-2.3 Guy Pelletier
*  - 337323: Multi-tenant with shared schema support (part 1)
* 03/24/2011-2.3 Guy Pelletier
*  - 337323: Multi-tenant with shared schema support (part 8)
* 07/03/2011-2.3.1 Guy Pelletier
*  - 348756: m_cascadeOnDelete boolean should be changed to Boolean
* 02/08/2012-2.4 Guy Pelletier
*  - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedById support
* 06/02/2009-2.0 Guy Pelletier
* - 278768: JPA 2.0 Association Override Join Table
* 11/23/2009-2.0 Guy Pelletier
* - 295790: JPA 2.0 adding @MapsId to one entity causes initialization errors in other entities
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/misc/FastQueue.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/misc/LookaheadStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/TreeIterator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/TreeNodeStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/BufferedTreeNodeStream.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/CommonTreeNodeStream.java

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* Guy Pelletier - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 05/23/2008-1.0M8 Guy Pelletier
* - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
* 05/30/2008-1.0M8 Guy Pelletier
* - 230213: ValidationException when mapping to attribute in MappedSuperClass
* 06/20/2008-1.0M9 Guy Pelletier
* - 232975: Failure when attribute type is generic
* 07/15/2008-1.0.1 Guy Pelletier
* - 240679: MappedSuperclass Id not picked when on get() method accessor
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 10/01/2008-1.1 Guy Pelletier
* - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/03/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedById support
* 04/30/2009-2.0 Michael O'Brien
* - 266912: JPA 2.0 Metamodel API (part of Criteria API)
* 06/16/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 MappedById support incomplete
* 06/25/2009-2.0 Michael O'Brien
* - 266912: change MappedSuperclass handling in stage2 to pre process accessors
* in support of the custom descriptors holding mappings required by the Metamodel.
* processAccessType() is now public and is overridden in the superclass
* 09/29/2009-2.0 Guy Pelletier
* - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
* 10/21/2009-2.0 Guy Pelletier
* - 290567: mappedbyid support incomplete
* 12/2/2009-2.1 Guy Pelletier
* - 296289: Add current annotation metadata support on mapped superclasses to EclipseLink-ORM.XML Schema
* 12/18/2009-2.1 Guy Pelletier
* - 211323: Add class extractor support to the EclipseLink-ORM.XML Schema
* 04/09/2010-2.1 Guy Pelletier
- 307050: Add defaults for access methods of a VIRTUAL access type
- 05/04/2010-2.1 Guy Pelletier
- 309373: Add parent class attribute to EclipseLink-ORM
- 05/14/2010-2.1 Guy Pelletier
- 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
- 06/01/2010-2.1 Guy Pelletier
- 315195: Add new property to avoid reading XML during the canonical model generation
- 06/09/2010-2.0.3 Guy Pelletier
- 313401: shared-cache-mode defaults to NONE when the element value is unrecognized
- 06/14/2010-2.2 Guy Pelletier
- 264417: Table generation is incorrect for JoinTables in AssociationOverrides
- 06/18/2010-2.2 Guy Pelletier
- 300458: EclipseLink should throw a more specific exception than NPE
- 06/22/2010-2.2 Guy Pelletier
- 308729: Persistent Unit deployment exception when mappedsuperclass has no annotations but has lifecycle callbacks
- 07/05/2010-2.1.1 Guy Pelletier
- 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
- 08/11/2010-2.2 Guy Pelletier
- 312123: JPA: Validation error during Id processing on parameterized generic OneToOne Entity relationship from MappedSuperclass
- 09/03/2010-2.2 Guy Pelletier
- 317286: DB column length not in sync between @Column and @JoinColumn
- 09/16/2010-2.2 Guy Pelletier
- 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
- 12/01/2010-2.2 Guy Pelletier
- 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
- 01/04/2011-2.3 Guy Pelletier
- 330628: @PrimaryKeyJoinColumn(...) is not working equivalently to @JoinColumn(..., insertable = false, updatable = false)
- 03/24/2011-2.3 Guy Pelletier
- 337323: Multi-tenant with shared schema support (part 1)
- 04/05/2011-2.3 Guy Pelletier
- 337323: Multi-tenant with shared schema support (part 3)
- 03/24/2011-2.3 Guy Pelletier
- 337323: Multi-tenant with shared schema support (part 8)
- 07/03/2011-2.3.1 Guy Pelletier
- 348756: m_cascadeOnDelete boolean should be changed to Boolean

******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/accessors/classes/EntityAccessor.java

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*   05/28/2008-1.0M8 Andrei Ilitchev
*      - New file introduced for bug 224964: Provide support for Proxy Authentication through JPA.
********************************************************************************/

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* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
* 05/24/2011-2.3 Guy Pelletier
* - 345962: Join fetch query when using tenant discriminator column fails.
* 06/30/2011-2.3.1 Guy Pelletier
* - 341940: Add disable/enable allowing native queries
* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
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* Denise Smith - Initial implementation June 12, 2009
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*open source used in CKC - Time Series Data Engine 1.2.2.4  926
* Oracle - initial API and implementation from Oracle TopLink
* 07/16/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/queries/ModifyAllQuery.java
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* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 10/01/2008-1.1 Guy Pelletier
* - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 04/09/2010-2.1 Guy Pelletier
* - 307050: Add defaults for access methods of a VIRTUAL access type
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 07/06/2011-2.3.1 Guy Pelletier
* - 349906: NPE while using eclipselink in the application
******************************************************************************/

/**
 * INTERNAL:
 * Process the metadata from the <entity-mappings> level except for the
 * classes themselves. They will be processed afterwards and controlled
 * by the MetadataProcessor. Note: this method does a few things of
 * interest. It not only adds metadata to the project but it will also
* override (that is EclipseLink-ORM-XML-->JPA-XML & JPA-XML-->Annotation)
* the necessary metadata and log messages to the user. A validation
* exception could also be thrown. See the related processing methods for
* more details.
*
* Any XML metadata of the types processed below should call these methods.
* That is, as an example, a converter can be found at the entity-mappings
* and entity level. Therefore you must ensure that those from levels other
* than the entity-mappings call these methods as well to ensure consistent
* metadata processing (and behavior).
*/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/xml/XMLEntityMappings.java

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*  mnorman - convert DBWS to use new EclipseLink public Dynamic Persistence APIs
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  jar/org/eclipse/persistence/internal/xr/XRDynamicEntity_CollectionWrapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/xr/XRDynamicEntity.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/xr/XRClassWriter.java

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* mmacivor - October 16th 2009 - 2.0 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/mappings/BidirectionalPolicy.java
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
*******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/EntityResultMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedStoredProcedureQueryMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedPLSQLStoredProcedureQueryMetadata.java
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  jar/org/eclipse/persistence/internal/jpa/metadata/xml/EmptyElementConverter.java
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*   10/01/2008-1.1 Guy Pelletier
*   - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
*   03/29/2010-2.1 Guy Pelletier
*   - 267217: Add Named Access Type to EclipseLink-ORM
******************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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  jar/org/eclipse/persistence/sequencing/UUIDSequence.java
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* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM  
* 08/11/2010-2.2 Guy Pelletier  
* - 312123: JPA: Validation error during Id processing on parameterized generic OneToOne Entity relationship from MappedSuperclass  
* 12/01/2010-2.2 Guy Pelletier  
* - 331234: xml-mapping-metadata-complete overriden by metadata-complete specification  
* 12/02/2010-2.2 Guy Pelletier  
* - 251554: ExcludeDefaultMapping annotation needed  
* 12/02/2010-2.2 Guy Pelletier  
* - 324471: Do not default to VariableOneToOneMapping for interfaces unless a managed class implementing it is found  
* 01/25/2011-2.3 Guy Pelletier  
* - 333488: Serializable attribute being defaulted to a variable one to one mapping and causing exception  
* 03/24/2011-2.3 Guy Pelletier  
* - 337323: Multi-tenant with shared schema support (part 1)  
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* 03/27/2009-2.0 Guy Pelletier  
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes  
* 04/27/2010-2.1 Guy Pelletier  
* - 309856: MappedSuperclasses from XML are not being initialized properly  
* 03/24/2011-2.3 Guy Pelletier  
* - 337323: Multi-tenant with shared schema support (part 1)  
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  jar/org/eclipse/persistence/internal/jpa/metadata/converters/ConverterMetadata.java  
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-
  jar/org/eclipse/persistence/internal/jpa/metadata/converters/AbstractConverterMetadata.java
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* - 337323: Multi-tenant with shared schema support (part 1)
* 07/03/2011-2.3.1 Guy Pelletier
* - 348756: m_cascadeOnDelete boolean should be changed to Boolean
* 05/17/2012-2.3.3 Guy Pelletier
* - 379829: NPE Thrown with OneToOne Relationship
******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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  jar/org/eclipse/persistence/annotations/Array.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/descriptors/CacheIndex.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/database/oracle/annotations/NamedPLSQLStoredFunctionQueries.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/database/oracle/annotations/NamedPLSQLStoredProcedureQueries.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/database/oracle/annotations/NamedPLSQLStoredProcedureQuery.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/database/oracle/annotations/PLSQLTable.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/database/oracle/annotations/Struct.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/tools/schemamodel/schemaframework/IndexDefinition.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/database/oracle/annotations/NamedPLSQLStoredProcedureQuery.java
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James Sutherland - allow for zero ids
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* - New file introduced for bug 217880.
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* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 08/17/2010-2.2 Guy Pelletier
* - 252280: inconsistency in change-tracking xml
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/SubQueryImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/MapJoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/AbstractQueryImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/JoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/CompoundSelectionImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/ConstructorSelectionImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/ListJoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/SelectionImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/BasicSetJoinImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/querydef/CompoundSelectionImpl.java
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  * 03/26/2008-1.0M6 Guy Pelletier
  * - 211302: Add variable 1-1 mapping support to the EclipseLink-ORM.XML Schema
  * 05/16/2008-1.0M8 Guy Pelletier
  * - 218084: Implement metadata merging functionality between mapping files
  * 03/27/2009-2.0 Guy Pelletier
  * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
  * 05/04/2010-2.1 Guy Pelletier
  * - 309373: Add parent class attribute to EclipseLink-ORM
  * 03/24/2011-2.3 Guy Pelletier
  * - 337323: Multi-tenant with shared schema support (part 1)
*******************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 10/01/2008-1.1 Guy Pelletier
* - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
* 03/29/2010-2.1 Guy Pelletier
* - 267217: Add Named Access Type to EclipseLink-ORM
* 04/09/2010-2.1 Guy Pelletier
* - 307050: Add defaults for access methods of a VIRTUAL access type
* 06/22/2010-2.2 Guy Pelletier
* - 308729: Persistent Unit deployment exception when mappedsuperclass has no annotations but has lifecycle callbacks
* 12/01/2010-2.2 Guy Pelletier
* - 331234: xml-mapping-metadata-complete overriden by metadata-complete specification
******************************************************************************/
**Contributor:
* Oracle - initial API and implementation from Oracle TopLink
* 11/13/2009-2.0 mobrien - 294765: MapKey keyType DirectToField processing
* should return attributeClassification class in getMapKeyTargetType when
* accessor.attributeField is null in the absence of a MapKey annotation
******************************************************************************/

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* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/annotations/TenantTableDiscriminator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/descriptors/TablePerMultitenantPolicy.java
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* Oracle - initial API and implementation from Oracle TopLink
  Gordon Yorke - VM managed entity detachment
* 07/16/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
* 07/15/2011-2.2.1 Guy Pelletier
* - 349424: persists during an preCalculateUnitOfWorkChangeSet event are lost
******************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/RepeatableWriteUnitOfWork.java
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* 02/11/2009-1.1 Michael O'Brien
* - 259993: As part 2) During mergeClonesAfterCompletion()
* If the the acquire and release threads are different
* switch back to the stored acquire thread stored on the mergeManager.
* tware, David Mulligan - fix performance issue with releasing locks
******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/helper/WriteLockManager.java
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* Denise Smith - EclipseLink 2.3 - Initial Implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/XMLNameTransformer.java
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* @author mobrien
* @since EclipseLink 2.2 enh# 316511
* 06/30/2010-2.1.1 Michael O'Brien
* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
* Move JMX MBean generic registration code up from specific platforms
* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
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  jar/org/eclipse/persistence/services/ClassSummaryDetailBase.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/PersistenceResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/QueryResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/EntityResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/common/AbstractPersistenceResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/common/AbstractSingleResultQueryResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/common/AbstractEntityResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/SingleResultQueryResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/PersistenceUnitResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/PersistenceUnitResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/PersistenceUnitResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/PersistenceUnitResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/EntityResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/resources/unversioned/EntityResource.java

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*       - 337323: Multi-tenant with shared schema support (part 1)
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  * Gordon Yorke - Interceptor feature https://bugs.eclipse.org/bugs/show_bug.cgi?id=219683

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*     James Sutherland - initial impl
*     05/14/2010-2.1 Guy Pelletier
*     - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
*     Hans Harz, Andrew Rustleund - Bug 324862 - IndexOutOfBoundsException in
*     DatabaseSessionImpl.initializeDescriptors because @MapKey Annotation is not found.
*     04/21/2011-2.3 dclarke: Upgraded to support ASM 3.3.1
*     08/10/2011-2.3 Lloyd Fernandes : Bug 336133 - Validation error during processing on parameterized generic
*     OneToMany Entity relationship from MappedSuperclass
*     10/05/2012-2.4.1 Guy Pelletier
*     - 373092: Exceptions using generics, embedded key and entity inheritance
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  * Andrei Ilitchev (Oracle), March 7, 2008
  * - New file introduced for bug 211300.
  * 05/16/2008-1.0M8 Guy Pelletier
  * - 218084: Implement metadata merging functionality between mapping file
  * 04/27/2010-2.1 Guy Pelletier
  * - 309856: MappedSuperclasses from XML are not being initialized properly
  * 03/24/2011-2.3 Guy Pelletier
  * - 337323: Multi-tenant with shared schema support (part 1)

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* Dies Koper - avoid generating constraints on platforms that do not support constraint generation
* Dies Koper - add support for creating indices on tables
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
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  * 02/26/2009-2.0 Guy Pelletier
  * - 264001: dot notation for mapped-by and order-by
  * 08/23/2010-2.2 Michael O'Brien
  * - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
  * warn if expected "_persistence_*_vh" method not found
  * instead of throwing NPE during deploy validation.
  * 07/19/2011-2.2.1 Guy Pelletier
  * - 338812: ManyToMany mapping in aggregate object violate integrity constraint on deletion
*******************************************************************************/
* 04/09/2012-2.4 Guy Pelletier
*   - 374377: OrderBy with ElementCollection doesn't work
* 14/05/2012-2.4 Guy Pelletier
*   - 376603: Provide for table per tenant support for multitenant applications

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  jar/org/eclipse/persistence/jpa/rs/PersistenceContext.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/rs/util/IdHelper.java

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*   - 218084: Implement metadata merging functionality between mapping files
* 12/12/2008-1.1 Guy Pelletier
*   - 249860: Implement table per class inheritance support.
* 02/06/2009-2.0 Guy Pelletier
*   - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
  * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
  * - 270011: JPA 2.0 MappedById support
* 09/29/2009-2.0 Guy Pelletier
  * - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
* 04/27/2010-2.1 Guy Pelletier
  * - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
  * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 03/24/2011-2.3 Guy Pelletier
  * - 337323: Multi-tenant with shared schema support (part 1)
* 05/17/2012-2.3.3 Arron Ferguson
  * - 379829: NPE Thrown with OneToOne Relationship

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* /opt/cola/permits/1272323593_1653633999_945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/persistence_2_0.xsd
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* 05/26/2009-2.0 mobrien - API update
* 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
  * of the Metamodel implementation for EclipseLink 2.0 release involving
Map, ElementCollection and Embeddable types on MappedSuperclass descriptors

08/06/2010-2.2 mobrien 322018 - reduce protected instance variables to private to enforce encapsulation

11/10/2011-2.4 Guy Pelletier

- 357474: Address primaryKey option from tenant discriminator column

******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metamodel/SingularAttributeImpl.java

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  * 09/14/2011-2.3.1 Guy Pelletier
  * - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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  jar/org/eclipse/persistence/platform/database/SQLServerPlatform.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/tools/schemaframework/UnaryTableSequenceDefinition.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/database/DB2Platform.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/tools/schemaframework/TableSequenceDefinition.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/database/oracle/Oracle9Platform.java

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 10/01/2008-1.1 Guy Pelletier
* - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 04/03/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedById support
* 06/02/2009-2.0 Guy Pelletier
* - 278768: JPA 2.0 Association Override Join Table
* 03/08/2010-2.1 Michael O'Brien
* - 300051: JPA 2.0 Metamodel processing requires EmbeddedId validation moved higher from
*   EmbeddedIdAccessor.process() to MetadataDescriptor.addAccessor() so we
*   can better determine when to add the MAPPED_SUPERCLASS_RESERVED_PK_NAME
*   temporary PK field used to process MappedSuperclasses for the Metamodel API
*   during MetadataProject.addMetamodelMappedSuperclass()
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 09/03/2010-2.2 Guy Pelletier
* - 317286: DB column length not in sync between @Column and @JoinColumn
* 12/17/2010-2.2 Guy Pelletier
* - 330755: Nested embeddables can't be used as embedded ids
* 12/23/2010-2.3 Guy Pelletier
* - 331386: NPE when mapping chain of 2 multi-column relationships using JPA 2.0 and @EmbeddedId
*   composite PK-FK
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/EmbeddedIdAccessor.java

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* tware, ssmith = 1.0 - bootstrap the deployment of Entities
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  jar/org/eclipse/persistence/internal/jpa/deployment/osgi/OSGiInitializer.java

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* tware, ssmith = 1.0 - Activator for EclipseLink persistence
* tware - updates to allow support of gemini project
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* - 218084: Implement metadata merging functionality between mapping file
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/tables/SecondaryTableMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/tables/CollectionTableMetadata.java

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* 03/19/2009-2.0  dclarke - initial API start                                 *
* 06/30/2009-2.0  mobrien - finish JPA Metadata API modifications in support *
* of the Metamodel implementation for EclipseLink 2.0 release involving   *
* Map, ElementCollection and Embeddable types on MappedSuperclass descriptors *
* - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API) *
* 06/14/2010-2.1  mobrien - 314906: getJavaType should return the collection javaType C in <X,C,V) of <X, List<V>, V> instead off the elementType V
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/ListAttributeImpl.java

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* 05/19/2010-2.1 ailitchev - Bug 244124 - Add Nested FetchGroup              *
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* 08/10/2009-2.0 Guy Pelletier
* - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes
* 06/01/2010-2.1 Guy Pelletier
* - 315195: Add new property to avoid reading XML during the canonical model generation
* 08/25/2010-2.2 Guy Pelletier
* - 309445: CanonicalModelProcessor process all files
* 11/23/2010-2.2 Guy Pelletier
* - 330660: Canonical model generator throws ClassCastException when using package-info.java
* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)
* 09/20/2011-2.3.1 Guy Pelletier
* - 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.

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* tware - initial API and implementation from for JPA 2.0 criteria API

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* rbarkhouse - 2011 May 09 - 2.3 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlVirtualAccessMethodsSchema.java
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* Blaise Doughan - 2.3 - initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/ExtendedContentHandler.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/metadata/MetadataSource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/metadata/MetadataSourceAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/metadata/MetadataSource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/metadata/MetadataSourceAdapter.java
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 * 09/09/2011-2.3.1 Guy Pelletier
 * - 356197: Add new VPD type to MultitenantType
 * 11/10/2011-2.4 Guy Pelletier
 * - 357474: Address primaryKey option from tenant discriminator column
 * 14/05/2012-2.4 Guy Pelletier
 * - 376603: Provide for table per tenant support for multitenant applications
 */

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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*   org.eclipse.persistence.platform.database.DB2MainframePlatform
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*   09/14/2011-2.3.1 Guy Pelletier
*   - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
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*   14/05/2012-2.4 Guy Pelletier
*   - 376603: Provide for table per tenant support for multitenant applications
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* 07/16/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
* 10/29/2010-2.2 Michael O'Brien
* - 325167: Make reserved # bind parameter char generic to enable native SQL pass through
* 06/30/2011-2.3.1 Guy Pelletier
* - 341940: Add disable/enable allowing native queries
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/transaction/jotm/JotmTransactionController.java
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  * 09/09/2011-2.3.1 Guy Pelletier
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* - 218084: Implement metadata merging functionality between mapping files
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing

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*     08/15/2008-1.0.1 Chris Delahunt
*       - 237545: List attribute types on OneToMany using @OrderBy does not work with attribute change tracking
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*     - 226517: Add existence support to the EclipseLink-ORM.XML Schema
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* mmacivor - Feb 06/2009 - Initial implementation
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    jar/org/eclipse/persistence/internal/libraries/antlr/runtime/ANTLRFileStream.java
  * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
    jar/org/eclipse/persistence/internal/libraries/antlr/runtime/MismatchedSetException.java
  * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
    jar/org/eclipse/persistence/internal/libraries/antlr/runtime/ANTLRInputStream.java
  * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
    jar/org/eclipse/persistence/internal/libraries/antlr/runtime/tree/TreeAdaptor.java
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    jar/org/eclipse/persistence/internal/libraries/antlr/runtime/debug/DebugTreeNodeStream.java
  * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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  * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
    jar/org/eclipse/persistence/internal/libraries/antlr/runtime/BlankDebugEventListener.java
  * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
    jar/org/eclipse/persistence/internal/libraries/antlr/runtime/BaseRecognizer.java
  * /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/MissingTokenException.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/rewriteCardinalityException.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/MismatchedRangeException.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/antlr/runtime/debug/DebugEventRepeater.java
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*     bdoughan - June 25/2009 - 2.0 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/libraries/asm/util/Traceable.java

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* Contributors:
* - rbarkhouse - 25 August 2011 - 2.4 - Initial implementation
******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlLocation.java

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* rbarkhou - new Policy Config classes for XMLLogin XML Support
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* Denise Smith June 05, 2009 - Initial implementation
*******************************************************************************/
* - 249037: JPA 2.0 persisting list item index
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 04/05/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 3)
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/columns/OrderColumnMetadata.java
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*    cdelahun - Bug 214534: added for JMSPublishingTransportManager configuration via session.xml
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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*    dclarke - initial API start
*    mobrien - finish JPA Metadata API modifications in support
* of the Metamodel implementation for EclipseLink 2.0 release involving
* Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
*    266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)
*    07/06/2009-2.0 mobrien - Metamodel implementation expansion
- 282518: Metamodel superType requires javaClass set on custom descriptor on MappedSuperclassAccessor.
- 07/10/2009-2.0 mobrien - Adjust BasicType processing to handle non-Entity Java types
- - 266912: As part of Attribute.getType() and specifically SingularAttribute.getBindableJavaType
  - set the appropriate elementType based on the mapping type.
- 09/23/2009-2.0 mobrien - 266912: Implement hasSingleIdAttribute() and all other 6 remaining methods for Id and Version support.
- DI 70 - 77 and 56

http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_74:_20090909:_Implement_IdentifiableType.hasSingleIdAttribute.28.29

- 10/14/2009-2.0 mobrien - 285512: managedType(clazz) now throws IAE again for any clazz that resolves to a BasicType - use getType(clazz) in implementations instead when you are expecting a BasicType
- 08/06/2010-2.2 mobrien 322018 - reduce protected instance variables to private to enforce encapsulation
- 08/06/2010-2.2 mobrien 303063 - handle null descriptor.javaClass passed from the metadata API
- 03/06/2011-2.3 mobrien 338837 - Metamodel entity processing requires specified entities in persistence.xml to avoid IllegalArgumentEn
* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping file
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

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* ssmith = 1.1 - A ClassLoader that aggregates multiple ClassLoaders

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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 06/20/2008-1.0 Guy Pelletier
* - 232975: Failure when attribute type is generic
* 09/23/2008-1.1 Guy Pelletier

*********************************************************************************/
* 241651: JPA 2.0 Access Type support  
* 01/28/2009-2.0 Guy Pelletier  
* 248293: JPA 2.0 Element Collections (part 1)  
* 03/27/2009-2.0 Guy Pelletier  
* 241413: JPA 2.0 Add EclipseLink support for Map type attributes  
* 11/06/2009-2.0 Guy Pelletier  
* 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)  
* 04/27/2010-2.1 Guy Pelletier  
* 309856: MappedSuperclasses from XML are not being initialized properly  
* 03/24/2011-2.3 Guy Pelletier  
* 337323: Multi-tenant with shared schema support (part 1)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/DirectAccessor.java

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 * 06/09/2009-2.0 Guy Pelletier  
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 * 03/24/2011-2.3 Guy Pelletier  
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* Contributors:
*     Oracle - initial API and implementation from Oracle TopLink
*     05/16/2008-1.0M8 Guy Pelletier
*       - 218084: Implement metadata merging functionality between mapping files
*     09/23/2008-1.1 Guy Pelletier
*       - 241651: JPA 2.0 Access Type support
*     02/06/2009-2.0 Guy Pelletier
*       - 248293: JPA 2.0 Element Collections (part 2)
*     02/25/2009-2.0 Guy Pelletier
*       - 265359: JPA 2.0 Element Collections - Metadata processing portions
*     03/27/2009-2.0 Guy Pelletier
*       - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
*     04/24/2009-2.0 Guy Pelletier
*       - 270011: JPA 2.0 MappedByld support
*     05/1/2009-2.0 Guy Pelletier
*       - 249033: JPA 2.0 Orphan removal
*     06/02/2009-2.0 Guy Pelletier
*       - 278768: JPA 2.0 Association Override Join Table
*     06/09/2009-2.0 Guy Pelletier
*       - 249037: JPA 2.0 persisting list item index
*     09/29/2009-2.0 Guy Pelletier
*       - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
*     10/21/2009-2.0 Guy Pelletier
*       - 290567: mappedbyid support incomplete
*     11/23/2009-2.0 Guy Pelletier
*       - 295790: JPA 2.0 adding @MapsId to one entity causes initialization errors in other entities
*     03/29/2010-2.1 Guy Pelletier
*       - 267217: Add Named Access Type to EclipseLink-ORM
*     04/27/2010-2.1 Guy Pelletier
*       - 309856: MappedSuperclasses from XML are not being initialized properly
*     06/14/2010-2.2 Guy Pelletier
*       - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
*     07/05/2010-2.1.1 Guy Pelletier
*       - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
*     08/04/2010-2.1.1 Guy Pelletier
*       - 315782: JPA2 derived identity metadata processing validation doesn't account for autoboxing
*     08/20/2010-2.2 Guy Pelletier
*       - 323252: Canonical model generator throws NPE on virtual 1-1 or M-1 mapping
*     08/25/2010-2.2 Guy Pelletier
*       - 309445: CanonicalModelProcessor process all files (minor correction to patch for bug above)
*     09/03/2010-2.2 Guy Pelletier
*       - 317286: DB column length not in sync between @Column and @JoinColumn
*     01/04/2011-2.3 Guy Pelletier
* - 330628: `@PrimaryKeyJoinColumn(...)` is not working equivalently to `@JoinColumn(..., insertable = false, updatable = false)`
* 01/06/2011-2.3 Guy Pelletier
* - 312244: can't map optional one-to-one relationship using `@PrimaryKeyJoinColumn`
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/ObjectAccessor.java
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 * 05/16/2008-1.0M8 Guy Pelletier
 * - 218084: Implement metadata merging functionality between mapping files
 * 06/20/2008-1.0 Guy Pelletier
 * - 232975: Failure when attribute type is generic
 * 01/28/2009-2.0 Guy Pelletier
 * - 248293: JPA 2.0 Element Collections (part 1)
 * 02/06/2009-2.0 Guy Pelletier
 * - 248293: JPA 2.0 Element Collections (part 2)
 * 02/26/2009-2.0 Guy Pelletier
 * - 264001: dot notation for mapped-by and order-by
 * 03/27/2009-2.0 Guy Pelletier
 * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
 * 04/03/2009-2.0 Guy Pelletier
 * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
 * 04/24/2009-2.0 Guy Pelletier
 * - 270011: JPA 2.0 MappedByld support
 * 05/1/2009-2.0 Guy Pelletier
 * - 249033: JPA 2.0 Orphan removal
 * 06/02/2009-2.0 Guy Pelletier
 * - 278768: JPA 2.0 Association Override Join Table
 * 06/09/2009-2.0 Guy Pelletier
 * - 249037: JPA 2.0 persisting list item index
 * 09/29/2009-2.0 Guy Pelletier
 * - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
* 11/06/2009-2.0 Guy Pelletier
* - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 03/29/2010-2.1 Guy Pelletier
* - 267217: Add Named Access Type to EclipseLink-ORM
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 01/25/2011-2.3 Guy Pelletier
* - 333913: @OrderBy and <order-by/> without arguments should order by primary
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

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  jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/CollectionAccessor.java
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* Contributors:
* cdelahun - Bug 214534: added JMS Cache Coordination for publishing only
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* Oracle - initial API and implementation from Oracle TopLink
* cdelahun - Bug 214534: changes for JMSPublishingTransportManager configuration via session.xml
Open Source Used In CKC - Time Series Data Engine 1.2.2.4

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/dynamic/DynamicIdentityPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/dynamic/JPADynamicTypeBuilder.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/dynamic/JPADynamicHelper.java

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Contributors:
* mmacivor - March 10/2009 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/impl/jaxb/MultiArgInstantiationPolicy.java

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Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* Markus KARG - Added methods allowing to support stored procedure creation on SQLAnywherePlatform.
* tware - added implementation of computeMaxRowsForSQL
* Dies Koper (Fujitsu) - bug fix for printFieldUnique()
* Dies Koper (Fujitsu) - added methods to create/drop indices
* Vikram Bhatia - added method for releasing temporary LOBs after conversion
* 09/09/2011-2.3.1 Guy Pelletier
* 356197: Add new VPD type to MultitenantType
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*     Matt MacIvor - 2.4 - Initial Implementation
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  jar/org/eclipse/persistence/internal/jaxb/CustomAccessorAttributeAccessor.java
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*     tware - added WebSphere_7_Platform for EclipseLink 2.0
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*     Oracle - initial API and implementation from Oracle TopLink
*     Vikram Bhatia - bug fix for releasing temporary LOBs after conversion
*     02/08/2012-2.4 Guy Pelletier
*     - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
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 * gonural - initial
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 */
jar/org/eclipse/persistence/jpa/rs/exceptions/PessimisticLockExceptionMapper.java
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/UnsupportedMediaTypeException.java
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/QueryTimeoutExceptionMapper.java
*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/exceptions/EntityExistsExceptionMapper.java
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* Denise Smith, Nov. 19, 2009
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* Oracle - initial API and implementation from Oracle TopLink
* dclarke - Bug 294985: update of comments and addition of connection logging property
* cdelahun - Bug 214534: added COORDINATION_JMS_REUSE_PUBLISHER property to enable JMS rcm
* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)
* 06/30/2011-2.3.1 Guy Pelletier
* - 341940: Add disable/enable allowing native queries
* 09/20/2011-2.3.1 Guy Pelletier
* - 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.
*******************************************************************************/
/**
 * The <code>"eclipselink.oracle.proxy-type"</code> property is used to
 * specify proxy type that should be passed to
 * OracleConnection.openProxySession method. Requires Oracle JDBC version
 * 10.1.0.2 or later. Requires Oracle9Platform or later as a database
 * platform (TARGET_DATABASE property value should be TargetDatabase.Oracle9
 * or later).
 * <p>
 * Values:
 * <ul>
 * <li>oracle.jdbc.OracleConnection.PROXYTYPE_USER_NAME,
 * <li>oracle.jdbc.OracleConnection.PROXYTYPE_DISTINGUISHED_NAME,
 * <li>oracle.jdbc.OracleConnection.PROXYTYPE_CERTIFICATE.
 * </ul>
 * <p>
 * Property values corresponding to the specified type should be also
 * provided:
 * <ul>
 * <li>oracle.jdbc.OracleConnection.PROXY_USER_NAME,
 * <li>oracle.jdbc.OracleConnection.PROXY_DISTINGUISHED_NAME,
 * <li>oracle.jdbc.OracleConnection.PROXY_CERTIFICATE.
 * </ul>
 * Typically these properties should be set into EntityManager (either
 * through createEntityManager method or using proprietary setProperties
 * method on EntityManagerImpl) - that causes EntityManager to use proxy
 * connection for writing and reading inside transaction. If proxy-type and
 * the corresponding proxy property set into EntityManagerFactory then all
 * connections created by the factory will be proxy connections.
 */

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/config/PersistenceUnitProperties.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/SubqueryEntityResolver.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/EclipseLinkDeclarationResolver.java

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* dminsky - added writeFields API overriding behavior from Expression
*******************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/expressions/LiteralExpression.java

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 * 05/16/2008-1.0M8 Guy Pelletier
 * - 218084: Implement metadata merging functionality between mapping files
 * 04/27/2010-2.1 Guy Pelletier
 * - 309856: MappedSuperclasses from XML are not being initialized properly
 * 07/23/2010-2.2 Guy Pelletier
 * - 237902: DDL GEN doesn't qualify SEQUENCE table with persistence unit schema
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 1)
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*     dclarke, mnorman - Dynamic Persistence
*     (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)
* *
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*     rbarkhouse - 2009-05-05 14:32:00 - initial implementation
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* 05/16/2008-1.0M8 Guy Pelletier
*   - 218084: Implement metadata merging functionality between mapping files
* 02/06/2009-2.0 Guy Pelletier
*   - 248293: JPA 2.0 Element Collections (part 2)
* 06/02/2009-2.0 Guy Pelletier
*   - 278768: JPA 2.0 Association Override Join Table
* 03/24/2011-2.3 Guy Pelletier
*   - 337323: Multi-tenant with shared schema support (part 1)
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* 14/05/2012-2.4 Guy Pelletier
*   - 376603: Provide for table per tenant support for multitenant applications
*******************************************************************************

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  jar/org/eclipse/persistence/internal/jpa/metadata/multitenant/TenantTableDiscriminatorMetadata.java
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* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parser/jpql/antlr/JPQL.g

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* Blaise Doughan - 2.3.3 - initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/UnmarshallerProperties.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/MarshallerProperties.java

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* Fujitsu Ltd. (Dies Koper) - based on TLE-based implementation in Fujitsu's
  * Interstage Application Server V9.2 (JPA 1.0)
  * 09/14/2011-2.3.1 Guy Pelletier
  * - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
* ****************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/SymfowarePlatform.java
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* 02/25/2009-2.0 Guy Pelletier
* - 265359: JPA 2.0 Element Collections - Metadata processing portions
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
***************************************************************************************/

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jar/org/eclipse/persistence/internal/jpa/metadata/converters/ObjectTypeConverterMetadata.java
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*   04/05/2011-2.3 Guy Pelletier
*     - 337323: Multi-tenant with shared schema support (part 3)
*   04/21/2011-2.3 Guy Pelletier
*     - 337323: Multi-tenant with shared schema support (part 5)
*   06/30/2011-2.3.1 Guy Pelletier
*     - 341940: Add disable/enable allowing native queries
*   07/11/2011-2.4 Guy Pelletier
*     - 343632: Can't map a compound constraint because of exception:
*       The reference column name [y] mapped on the element [field x]
*       does not correspond to a valid field on the mapping reference
*   09/09/2011-2.3.1 Guy Pelletier
*     - 356197: Add new VPD type to MultitenantType
*   02/05/2012-2.4 Guy Pelletier
*     - 380008: Multitenant persistence units with a dedicated emf should force tenant property specification up front.
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/exceptions/i18n/ValidationExceptionResource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/exceptions/ValidationException.java
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* Contributors:
* Gordon Yorke - initial API and implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/indirection/CacheBasedValueHolder.java
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* dmccann - May 29/2009 - 2.0 - Initial implementation
******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jaxb/JAXBSetMethodAttributeAccessor.java
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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* dclarke Bug 244124: Enhanced weaving to support extended FetchGroup functionality
* 08/23/2010-2.2 Michael O'Brien
* - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
  * warn if expected "_persistence_*_vh" method not found
  * instead of throwing NPE during deploy validation.

******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/weaving/ClassWeaver.java
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* Oracle - initial API and implementation from Oracle TopLink
* stardif - ClientSession broker ServerSession and change propagation additions
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/sessions/broker/SessionBroker.java
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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files 
* 09/23/2008-1.1 Guy Pelletier 
* - 241651: JPA 2.0 Access Type support
*******************************************************************************
10/01/2008-1.1 Guy Pelletier
- 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
12/01/2010-2.2 Guy Pelletier
- 331234: xml-mapping-metadata-complete overriden by metadata-complete specification

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataField.java

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* Contributors:
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
*******************************************************************************

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/LobMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/TemporalMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/EnumeratedMetadata.java

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bdoughan - January 7/2009 - 1.1 - Initial implementation

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  jar/org/eclipse/persistence/internal/oxm/MappingNodeValue.java

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Contributors:

* 03/19/2009-2.0  dclarke  - initial API start
* 06/30/2009-2.0  mobrien - finish JPA Metadata API modifications in support
  of the Metamodel implementation for EclipseLink 2.0 release involving
  Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
* 07/20/2010-2.1  mobrien - 303063: Descriptor.javaClass may not be set according to metadata contract

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metamodel/TypeImpl.java

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* 06/30/2009-2.0  mobrien - finish JPA Metadata API modifications in support
  of the Metamodel implementation for EclipseLink 2.0 release involving
  Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
* 07/20/2010-2.1  mobrien - 303063: Descriptor.javaClass may not be set according to metadata contract
* 07/06/2009-2.0 mobrien - 266912: Introduce IdentifiableTypeImpl between ManagedTypeImpl
  * - EntityTypeImpl now inherits from IdentifiableTypeImpl instead of ManagedTypeImpl
  * - MappedSuperclassTypeImpl now inherits from IdentifiableTypeImpl instead
  * of implementing IdentifiableType indirectly
  * - implement Set<SingularAttribute<? super X, ?>> get SingularAttributes()
  * 07/09/2009-2.0 mobrien - 266912: implement get*Attribute() functionality
  * - functions throw 2 types of IllegalArgumentExceptions depending on whether
  *   the member is missing or is the wrong type - see design issue #41
  *
  http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_41:_When_to_throw_IAE_for_mis
  sing_member_or_wrong_type_on_get.28.29_call
  * 07/14/2009-2.0 mobrien - 266912: implement getDeclared*() functionality
  * - Implement 14 functions for ManagedType - see design issue #43
  *
  http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_43:_20090710:_Implement_getDecla
  redX.28.29_methods
  * 07/28/2009-2.0 mobrien - 284877: implement recursive functionality for hasDeclaredAttribute()
  * - see design issue #52
  *
  http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_52:_20090728:_JPA_2:_Implement_ recursive_ManagedType.getDeclared.2A_algorithm_to_differentiate_by_IdentifiableType
  * 08/08/2009-2.0 mobrien - 266912: implement Collection and List separation during attribute initialization
  * - see design issue #58
  *
  http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_58:_20090807:_ManagedType_Attri
  bute_Initialization_must_differentiate_between_Collection_and_List
  * 08/17/2009-2.0 mobrien - 284877: The base case for the recursive function
  *   managedTypeImpl.hasDeclaredAttribute() does not handle use case 1.4 (root-level managedType)
  *   when the caller of the function does not do it's own inheritedType check.
  * - see design issue #52
  * http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI:52_Refactor:_20090817
  * 08/19/2009-2.0 mobrien - 266912: Handle MappedSuperclass in ManagedTypeImpl.create()
  * - see design issue #39 (partial)
  *
  http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_39:_20090708:_Handle_MappedSuper
  erclass_in_ManagedTypeImpl.create.28.29
  * 08/19/2009-2.0 mobrien - 266912: ManagedType.getDeclaredX() leaks members into entity-entity hierarchy
  * - see design issue #61
  *
  http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_61:_20090820:_ManagedType.getDeclaredX.28.29_leaks_members_into_entity-entity_hierarchy
  * 06/01/2010-2.1 mobrien - 315287: Handle BasicType as inheritance root for ManagedTypes
  * - see design issue #103
  *
  http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_103:_20100601:_315287:_Handle_Ba
 asicType_as_inheritance_root_for_ManagedTypes
  * 09/09/2010-2.2 mobrien - 322166: If attribute is defined on this current ManagedType (and not on a superclass)
* do not attempt a reflective call on a superclass
* see design issue #25

http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_25:_20090616:_Inherited_parametrized_generics_for_Element_Collections__28Basic__29

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 * Contributors:
 * Chris Delahunt (Oracle) May 13, 2008-1.0M8
 * - New file introduced for bug 217164.
 * 05/16/2008-1.0M8 Guy Pelletier
 * - 218084: Implement metadata merging functionality between mapping files
 * 11/06/2009-2.0 Guy Pelletier
 * - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
 * 03/29/2010-2.1 Guy Pelletier
 * - 267217: Add Named Access Type to EclipseLink-ORM
 * 04/09/2010-2.1 Guy Pelletier
 * - 307050: Add defaults for access methods of a VIRTUAL access type
 * 04/27/2010-2.1 Guy Pelletier
 * - 309856: MappedSuperclasses from XML are not being initialized properly
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 1)
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* Contributors:
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 11/15/2011-2.3.2 Guy Pelletier
* - 363820: Issue with clone method from VPDMultitenantPolicy
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/pql/spi/IType.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/pql/parser/TrimExpressionFactory.java
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* rbarkhouse - 19 Jan 2009 - 1.1 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/sdo/dataobjects/OpenSequencedType.java
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* dmccann - October 22/2010 - 2.1.2 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/sdo/helper/ApplicationResolver.java
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* Blaise Doughan - 2.4.2 - initial implementation
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  jar/org/eclipse/persistence/internal/oxm/documentpreservation/AbstractDocumentPreservationPolicy.java
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 * dmccann - June 29/2009 - 2.0 - Initial implementation
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  jar/org/eclipse/persistence/jaxb/xmlmodel/XmlElementRef.java
* /opt/cola/permit/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/xmlmodel/XmlBindings.java
* /opt/cola/permit/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/xmlmodel/XmlAnyElement.java
* /opt/cola/permit/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/xmlmodel/XmlSchemaTypes.java
* /opt/cola/permit/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/xmlmodel/package-info.java
* /opt/cola/permit/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/xmlmodel/XmlType.java
* /opt/cola/permit/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/xmlmodel/XmlAccessType.java
* /opt/cola/permit/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/xmlmodel/JavaType.java
* /opt/cola/permit/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* Oracle - initial API and implementation from Oracle TopLink
* 02/02/2009-2.0 Chris delahunt
* - 241765: JPA 2.0 Derived identities
* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedById support
* 10/21/2009-2.0 Guy Pelletier
* - 290567: mappedbyid support incomplete
* 12/17/2010-2.2 Guy Pelletier
* - 330755: Nested embeddables can't be used as embedded ids
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
* 08/20/2012-2.4 Guy Pelletier
* - 381079: EclipseLink dynamic entity does not support embedded-id

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/CMP3Policy.java

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*  mmacivor - March 12/2009 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* 06/16/2009-2.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 06/09/2009-2.0 Guy Pelletier
* - 249037: JPA 2.0 persisting list item index
* 09/03/2010-2.2 Guy Pelletier
* - 317286: DB column length not in sync between @Column and @JoinColumn
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4.2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/columns/RelationalColumnMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4.2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/columns/JoinColumnMetadata.java
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* Denise Smith - April 21/2009 - 2.0 - Initial implementation
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/* 03/27/2009-2.0 Guy Pelletier */
/* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes */
/* 04/03/2009-2.0 Guy Pelletier */
/* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes */
/* 11/06/2009-2.0 Guy Pelletier */
/* - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug) */

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/* 05/16/2008-1.0M8 Guy Pelletier */
/* - 218084: Implement metadata merging functionality between mapping files */
/* 04/27/2010-2.1 Guy Pelletier */
/* - 309856: MappedSuperclasses from XML are not being initialized properly */
/* 03/24/2011-2.3 Guy Pelletier */
/* - 337323: Multi-tenant with shared schema support (part 1) */

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* Contributors:
* 03/08/2010 Andrei Hitchev
* Bug 300512 - Add FUNCTION support to extended JPQL

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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* James Sutherland - Update to HSQL 1.8.1 and LRG
* 11/04/2010-2.2 Michael O'Brien
* - 319592: HSQL 2.0.0 requires VARCHAR length specified
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/HSQLPlatform.java
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* Contributors:
* rbarkhouse - 2009-11-25 14:23:25 - v2.0 - initial implementation
****************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlInverseReference.java
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* Contributors:
* @author mobrien
* @since EclipseLink 2.1.1 enh# 316511
* 06/30/2010-2.1.1 Michael O'Brien
* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
* Move JMX MBean generic registration code up from specific platforms

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* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/jboss/ClassSummaryDetail.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/jboss/JBossRuntimeServices.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/jboss/JBossRuntimeServicesMBean.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/glassfish/MBeanGlassfishRuntimeServices.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/glassfish/MBeanGlassfishRuntimeServicesMBean.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/glassfish/MBeanGlassfishRuntimeServicesMBean.java
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* Phillip Ross - LIMIT/OFFSET syntax support
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/PostgreSQLPlatform.java
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*     tware - refactor of Archive to allow to work with Gemini

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*     Denise Smith - January, 2010 - 2.0.1
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  * 11/10/2011-2.4 Guy Pelletier
  * - 357474: Address primaryKey option from tenant discriminator column

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/weaving/TransformerFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/expressions/QueryKeyExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/eis/mappings/EISDirectMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/ReportQueryResult.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/factories/ProjectClassGenerator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/expressions/RelationExpression.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/xdb/DirectToXMLTypeMapping.java

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  * 04/27/2010-2.1 Guy Pelletier
  * - 309856: MappedSuperclasses from XML are not being initialized properly
  * 03/24/2011-2.3 Guy Pelletier

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* - 337323: Multi-tenant with shared schema support (part 1)
* 03/28/2011-2.3 Guy Pelletier
* - 341152: From XML cache interceptor and query redirector metadata don't support package specification

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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 07/23/2010-2.2 Guy Pelletier
* - 237902: DDL GEN doesn't qualify SEQUENCE table with persistence unit schema
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
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* Oracle - initial API and implementation from Oracle TopLink
* @author mobrien
* @since EclipseLink 1.1 enh# 248748
* 10/20/2008-1.1M4 Michael O'Brien
* - 248748: Add WebLogic 10.3 specific JMX MBean attributes and functions
  * see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/248748</link>
  * 06/30/2010-2.1.1 Michael O'Brien
* - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
  * Move JMX MBean generic registration code up from specific platforms
  * see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>

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* Oracle - initial API and implementation from Oracle TopLink
* Zoltan NAGY & tware - added implementation of updateMaxRowsForQuery
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
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* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/foundation/AbstractCompositeObjectMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/converters/EnumTypeConverter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/foundation/AbstractCompositeCollectionMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/converters/ObjectTypeConverter.java
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* 07/25/2008-1.0   Michael OBrien
* - 242120: Let the DB exception in alterOnDatabase() propagate so as not to
* cause an infinite loop when ddl generation updates fail on a JTA DS
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/tools/schemaframework/SequenceObjectDefinition.java
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* Oracle - initial API and implementation from Oracle TopLink
**07/19/2011-2.2.1 Guy Pelletier**
- 338812: ManyToMany mapping in aggregate object violate integrity constraint on deletion
**25/05/2012-2.4 Guy Pelletier**
- 354678: Temp classloader is still being used during metadata processing

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/DirectMapMapping.java
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 *     Oracle - initial API and implementation from Oracle TopLink
 *     cdelahun - Bug 214534: moved all api to JMSPublishingTransportManagerConfig

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/transport/JMSTopicTransportManagerConfig.java
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 *     minorman - May 2008: helpful superclass that handles Namespaces for project-Project's

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/namespace/ResizeNamespaceResolvableProject.java
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05/24/2011-2.3 Guy Pelletier
- 345962: Join fetch query when using tenant discriminator column fails.

02/08/2012-2.4 Guy Pelletier
- 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

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mmacivor - June 05/2008 - 1.0 - Initial implementation
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* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM

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* dclarke, mnorman - Dynamic Persistence
* (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications

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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 06/20/2008-1.0 Guy Pelletier
* - 232975: Failure when attribute type is generic
* 04/02/2009-2.0 Guy Pelletier
* - 270853: testBeerLifeCycleMethodAnnotationIgnored within xml merge testing need to be relocated
* 01/05/2010-2.1 Guy Pelletier
* - 211324: Add additional event(s) support to the EclipseLink-ORM.XML Schema
* 12/01/2010-2.2 Guy Pelletier
* - 331234: xml-mapping-metadata-complete overriden by metadata-complete specification
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
/* *************************************************** */

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/listeners/EntityClassListenerMetadata.java
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* tware - March 28/2008 - 1.0M7 - Initial implementation
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
************************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/copypolicy/CustomCopyPolicyMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/copypolicy/CloneCopyPolicyMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/copypolicy/CopyPolicyMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/copypolicy/InstantiationCopyPolicyMetadata.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/annotations/NamedAttributeNode.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/annotations/NamedEntityGraph.java
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* 06/30/2010-2.1.1 Michael O'Brien
*   - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
*     Move JMX MBean generic registration code up from specific platforms
*     see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
* 07/15/2010-2.1.1 Michael O'Brien
*   - 316513: registration/deregistration mismatch for MBean Object name reg=- and dereg=_ - no more instance
*     already exists on redeploy
* 10/18/2010-2.1.2 Michael O'Brien
*   - 328006: Refactor WebLogic MBeanServer registration to use active
*     WLS com.bea.server when multiple instances returned
*     see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513#DI_4:_20100624:_Verify_correct_MBeanServer_available_when_running_multiple_MBeanServer_Instances</link>
* 01/01/2011-2.2 Michael O'Brien
*   - 333160: ModuleName string extraction code does not handle -1 not found index in 3 of 5 cases
* 11/01/2011-2.2 Michael O'Brien
*   - 333336: findMBeanServer() requires security API AccessController.doPrivileged()
*     private run method security block.
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_165363999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/server/JMXServerPlatformBase.java
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* Oracle - initial API and implementation from Oracle TopLink
* GYorke - non-bug update to set accessor in case of connection failure. This
*           will allow the retry code to function.
******************************************************************************/
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/databaseaccess/DatasourceAccessor.java
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  jar/org/eclipse/persistence/internal/jpa/weaving/RestAdapterClassWriter.java
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  * Andrei Ilitchev (Oracle), March 7, 2008
  * - New file introduced for bug 211300.
  * 05/16/2008-1.0M8 Guy Pelletier
  * - 218084: Implement metadata merging functionality between mapping files
  * 02/06/2009-2.0 Guy Pelletier
  * - 248293: JPA 2.0 Element Collections (part 2)
  * 03/27/2009-2.0 Guy Pelletier
  * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
  * 04/27/2010-2.1 Guy Pelletier
  * - 309856: MappedSuperclasses from XML are not being initialized properly
  * 03/24/2011-2.3 Guy Pelletier
  * - 337323: Multi-tenant with shared schema support (part 1)
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* 05/05/2011-2.3 Chris Delahunt - Bug 344837: Extensibility - Metadata Repository
* 02/27/2012-2.4 dclarke - Bug 373120: Add persistence unit property overrides to Metadata Repository
*******************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/TransformationAccessor.java

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* 03/19/2009-2.0 dclarke - initial API start
* 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
* of the Metamodel implementation for EclipseLink 2.0 release involving
* Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
* - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)
* 08/19/2009-2.0 mobrien - Extend Collection support
* http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_59:_20090818:_PluralAttribute.elementType_not_set_for_non-lazy_instantiated_Collection_Attribute
* 06/14/2010-2.1 mobrien - 314906: getJavaType should return the
collection javaType C in <X,C,V> of <X, List<V>, V> instead off the elementType V
* 08/06/2010-2.2 mobrien 322018 - reduce protected instance variables to private to enforce encapsulation
*******************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metamodel/PluralAttributeImpl.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/many/MultiDimensionalManyValue.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/many/MultiDimensionalCollectionValue.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/rs/MOXyJsonProvider.java

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* * 218084: Implement metadata merging functionality between mapping file
*     09/23/2008-1.1 Guy Pelletier
* * 241651: JPA 2.0 Access Type support
*     12/10/2008-1.1 Michael O'Brien
* * 257606: Add orm.xml schema validation true/(false) flag support in persistence.xml
*     03/27/2009-2.0 Guy Pelletier
* * 241413: JPA 2.0 Add EclipseLink support for Map type attributes
******************************************************************************/

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*     bdoughan - Jan 27/2009 - 1.1 - Initial implementation
*     bdoughan - Mar 31/2009 - 2.0 - Added ChangeSummary Support
*******************************************************************************/

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* mnorman - May 15/2008 - 1.x - Initial implementation
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  jar/org/eclipse/persistence/internal/xr/XRSessionsFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4.2-sources-2-
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* dmccann - September 14/2010 - 2.2 - Initial implementation
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(['/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4.2-sources-2-
  jar/org/eclipse/persistence/oxm/annotations/XmlJoinNodes.java]
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*     04/27/2010-2.1 Guy Pelletier
*     - 309856: MappedSuperclasses from XML are not being initialized properly
*     03/24/2011-2.3 Guy Pelletier
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* - 337323: Multi-tenant with shared schema support (part 1)
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/queries/FieldResultMetadata.java
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* 05/05/2011-2.3 Chris Delahunt
* - 344837: Extensibility - Metadata Repository
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4-2-sources-2.jar/org/eclipse/persistence/jpa/metadata/XMLMetadataSource.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4-2-sources-2.jar/org/eclipse/persistence/jpa/rs/util/xmladapters/RelationshipLinkAdapter.java
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* mmacivor - July 18 05/2008 - 1.0 - Initial implementation
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* dmccann - December 10/2009 - 2.0.1 - Initial implementation
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*
* James Sutherland - initial impl
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/database/FirebirdPlatform.java
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* tware - added as part of JPQL extensions for JPA 2.0
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/expressions/DateConstantExpression.java
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* dmccann - May 25/2009 - 2.0 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/schema/SchemaModelOutputResolver.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/JAXBSchemaOutputResolver.java
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*  - rbarkhouse - 19 April 2012 - 2.4 - Initial implementation

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* Contributors:
*  - dclarke - initial API start
*  - mobrien - JPA Metadata API modifications in support of the Metamodel implementation for EclipseLink 2.0 release involving Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
*  - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)
*  - 06/14/2010-2.1 mobrien - 314906: getJavaType should return the collection javaType C in <X,C,V> of <X, Collection<V>, V> instead of the elementType V

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*  * dclarke/tware - initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/PersistenceContextFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/PersistenceContextFactoryProvider.java

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*  * Oracle - initial API and implementation from Oracle TopLink
*  * 05/16/2008-1.0M8 Guy Pelletier
*  * - 218084: Implement metadata merging functionality between mapping files
*  * 02/06/2009-2.0 Guy Pelletier
*  * - 248293: JPA 2.0 Element Collections (part 2)
*  * 03/27/2009-2.0 Guy Pelletier
*  * - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
*  * 04/24/2009-2.0 Guy Pelletier
*  * - 270011: JPA 2.0 MappedById support
*  * 11/02/2009-2.0 Michael O'Brien
*  * - 266912: JPA 2.0 Metamodel support for m:1 as m:m in DI 96
*  * 04/27/2010-2.1 Guy Pelletier
*  * - 309856: MappedSuperclasses from XML are not being initialized properly
*  * 06/14/2010-2.2 Guy Pelletier
*  * - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
*  * 03/24/2011-2.3 Guy Pelletier
*  * - 337323: Multi-tenant with shared schema support (part 1)
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/ManyToOneAccessor.java
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 * Oracle - initial API and implementation from Oracle TopLink
 * 05/28/2008-1.0M8 Andrei Iliichev.
 * - 224964: Provide support for Proxy Authentication through JPA.
 *   No longer throws exception in case value holder for isolated class instantiated on the closed session.
 *   Instead after the session is closed it switches to a mode when it acquires write connection only for the
 *   duration of the query execution.
 *   The idea is all the necessary customization will be applied to the resurrected connection again, and cleared
 *   afterwards -
 *   may be expensive, but works and costs nothing unless actually used.
 *   Moved setting of the accessor from getExecutionSession to executeCall because getExecutionSession is
 *   called sometimes
 *   without the need for connection (like creating a row), and that used to cause an unnecessary
 *   acquiring of the connection on the closed session.
 *
*******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/sessions/ExclusiveIsolatedClientSession.java
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 * Oracle - initial API and implementation from Oracle TopLink
 * 05/16/2008-1.0M8 Guy Pelletier
 * - 218084: Implement metadata merging functionality between mapping file
 * 11/06/2009-2.0 Guy Pelletier

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* - 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 8)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/tables/TableMetadata.java
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*     tware - initial
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  jar/org/eclipse/persistence/jpa/rs/util/JTATransactionWrapper.java
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*     Oracle - initial API and implementation from Oracle TopLink
*     05/16/2008-1.0M8 Guy Pelletier
*     - 218084: Implement metadata merging functionality between mapping files
*     01/28/2009-2.0 Guy Pelletier
*     - 248293: JPA 2.0 Element Collections (part 1)
*     04/27/2010-2.1 Guy Pelletier
*     - 309856: MappedSuperclasses from XML are not being initialized properly
*     09/16/2010-2.2 Guy Pelletier
*******************************************************************************/
* - 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
* - 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/classes/XMLAttributes.java
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* - 03/26/2008-1.0M6 Guy Pelletier
* - 211302: Add variable 1-1 mapping support to the EclipseLink-ORM.XML Schema
* - 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* - 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* - 01/25/2011-2.3 Guy Pelletier
* - 333913: @OrderBy and <order-by/> without arguments should order by primary
* - 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/columns/DiscriminatorClassMetadata.java
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* Contributors:
* - Matt MacIvor - 2.4 - initial implementation
Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/AccessorFactoryWrapper.java
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*     James Sutherland - initial impl
*     10/21/2009-2.0 Guy Pelletier
*     - 290567: mappedbyid support incomplete
*     25/05/2012-2.4 Guy Pelletier
*     - 354678: Temp classloader is still being used during metadata processing
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataAnnotation.java
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*     03/24/2011-2.3 Guy Pelletier
*     - 337323: Multi-tenant with shared schema support (part 1)
*     11/10/2011-2.4 Guy Pelletier
*     - 357474: Address primaryKey option from tenant discriminator column
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/MultitenantIdAccessor.java

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* 05/16/2008-1.0M8 Guy Pelletier
*   - 218084: Implement metadata merging functionality between mapping files
* 05/23/2008-1.0M8 Guy Pelletier
*   - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
* 09/23/2008-1.1 Guy Pelletier
*   - 241651: JPA 2.0 Access Type support
* 01/28/2009-2.0 Guy Pelletier
*   - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
*   - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
*   - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
*   - 270011: JPA 2.0 MappedByld support
* 04/30/2009-2.0 Michael O'Brien
*   - 266912: JPA 2.0 Metamodel API (part of Criteria API)
* 06/16/2009-2.0 Guy Pelletier
*   - 277039: JPA 2.0 Cache Usage Settings
* 06/17/2009-2.0 Michael O'Brien
*   - 266912: change mappedSuperclassDescriptors Set to a Map
*     keyed on MetadataClass - avoiding the use of a hashCode/equals
*     override on RelationalDescriptor, but requiring a contains check prior to a put
* 06/25/2009-2.0 Michael O'Brien
*   - 266912: change MappedSuperclass handling in stage2 to pre process accessors
*     in support of the custom descriptors holding mappings required by the Metamodel
* 08/11/2009-2.0 Michael O'Brien
*   - 284147: do not add a pseudo PK Field for MappedSuperclasses when
*     1 or more PK fields already exist on the descriptor.
* 10/21/2009-2.0 Guy Pelletier
*   - 290567: mappedbyid support incomplete
* 11/13/2009-2.0 Guy Pelletier
*   - 293629: An attribute referenced from orm.xml is not recognized correctly
* 03/08/2010-2.1 Guy Pelletier
*   - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 03/08/2010-2.1 Michael O'Brien

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- 300051: JPA 2.0 Metamodel processing requires EmbeddedId validation moved higher from EmbeddedIdAccessor.process() to MetadataDescriptor.addAccessor() so we can better determine when to add the MAPPED_SUPERCLASS_RESERVED_PK_NAME temporary PK field used to process MappedSuperclasses for the Metamodel API during MetadataProject.addMetamodelMappedSuperclass()

04/09/2010-2.1 Guy Pelletier

- 307050: Add defaults for access methods of a VIRTUAL access type

05/14/2010-2.1 Guy Pelletier

- 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml

06/09/2010-2.0.3 Guy Pelletier

- 313401: shared-cache-mode defaults to NONE when the element value is unrecognized

06/14/2010-2.2 Guy Pelletier

- 264417: Table generation is incorrect for JoinTables in AssociationOverrides

07/05/2010-2.1.1 Guy Pelletier

- 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping

07/23/2010-2.2 Guy Pelletier

- 237902: DDL GEN doesn't qualify SEQUENCE table with persistence unit schema

08/11/2010-2.2 Guy Pelletier

- 312123: JPA: Validation error during Id processing on parameterized generic OneToOne Entity relationship from MappedSuperclass

09/03/2010-2.2 Guy Pelletier

- 317286: DB column length not in sync between @Column and @JoinColumn

12/01/2010-2.2 Guy Pelletier

- 331234: xml-mapping-metadata-complete overridden by metadata-complete specification

12/02/2010-2.2 Guy Pelletier

- 251554: ExcludeDefaultMapping annotation needed

12/02/2010-2.2 Guy Pelletier

- 324471: Do not default to VariableOneToOneMapping for interfaces unless a managed class implementing it is found

03/24/2011-2.3 Guy Pelletier

- 337323: Multi-tenant with shared schema support (part 1)

04/01/2011-2.3 Guy Pelletier

- 337323: Multi-tenant with shared schema support (part 2)

08/09/2011

Masumi Ito, Fujitsu - Bug 351791 - NPE occurs on specifying two kinds of primary key generators on orm.xml

09/09/2011-2.3.1 Guy Pelletier

- 356197: Add new VPD type to MultitenantType

09/20/2011-2.3.1 Guy Pelletier

- 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.

02/08/2012-2.4 Guy Pelletier

- 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

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*/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/MetadataProject.java
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 06/09/2009-2.0 Guy Pelletier
* - 249037: JPA 2.0 persisting list item index
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/columns/PrimaryKeyJoinColumnMetadata.java
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* 03/29/2010-2.1 Guy Pelletier
* - 267217: Add Named Access Type to EclipseLink-ORM
***************************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/descriptors/VirtualAttributeAccessor.java
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  jar/org/eclipse/persistence/config/CacheIsolationType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/indirection/ProtectedValueHolder.java

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  jar/org/eclipse/persistence/jpa/jpql/model/query/DeclarationStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/jpql/model/AbstractStateObjectBuilder.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/jpql/model/AbstractEclipseLinkSelectExpressionStateObjectBuilder.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/jpql/EclipseLinkJPQLQueryHelper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/jpql/EclipseLinkRefactoringTool.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/jpql/model/query/HavingClauseStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/jpql/model/IConditionalExpressionStateObjectBuilder.java
* '/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/KeywordExpressionStateObject.java
* '/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/StateObject.java
* '/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/JPQLQueryStateObject.java
* '/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/JPQLQueryStateObject.java
* '/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/OrderByClauseStateObject.java
* '/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/AbstractSelectClauseStateObject.java
* '/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/NullComparisonExpressionStateObject.java
* '/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/UpdateClauseStateObject.java
* '/opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/model/query/CollectionDeclaration.java

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/IPropertyChangeListener.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/IListChangeListener.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/IEclipseLinkConditionalStateObjectBuilder.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/EnumTypeStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/AbstractPathExpressionStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/AbstractSchemaNameStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/CollectionMemberDeclarationStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/IdentificationVariableStateObject.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/DivisionExpressionStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/AllOrAnyExpressionStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/UpdateItemStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/AbsExpressionStateObject.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/AbstractRangeVariableDeclarationStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/AbstractCaseExpressionStateObjectBuilder.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/DefaultJPQLQueryFormatter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/DefaultJPQLMappingType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/DefaultProblem.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/AbstractProblem.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/DefaultProblem.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/DefaultProblem.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpa/jpql/model/query/DefaultProblem.java
null
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpql/model/JPQLQueryBuilderWrapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpql/model/query/UpperExpressionStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpql/model/query/NumericLiteralStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpql/model/query/VariableDeclarationStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpql/model/query/NotExpressionStateObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/jpql/model/DefaultRefactoringTool.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/oxm/record/XMLEventReaderReader.java

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*  mmacivor - September 14/2009 - 2.0 - Initial implementation
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* Oracle - initial API and implementation from Oracle TopLink
* Zoltan NAGY & tware - updated support for MaxRows
* 11/01/2010-2.2 Guy Pelletier
* - 322916: getParameter on Query throws NPE
* - 329089: PERF: EJBQueryImpl.setParameterInternal() move indexOf check inside non-native block
* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/StoredProcedureQueryImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/QueryImpl.java

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* dmccann - August 25/2009 - 2.2 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/annotations/XmlDiscriminatorNode.java

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 * James Sutherland - initial API and implementation
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 1)
 * 25/05/2012-2.4 Guy Pelletier
 * - 354678: Temp classloader is still being used during metadata processing
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/FieldPartitioningMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/partitioning/RangePartitioningMetadata.java
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 * Oracle - initial API and implementation from Oracle TopLink
 * tware - added handling of database delimiters
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 1)
***********************************************************************************************************************************************/
25/05/2012 2.4 Guy Pelletier
- 354678: Temp classloader is still being used during metadata processing

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  jar/org/eclipse/persistence/internal/helper/DatabaseField.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/dbws/DBWSModelProject.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/dbws/SOAPResponse.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/xr/NamedQueryHandler.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/xr/Result.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/sessions/factories/ObjectPersistenceRuntimeXMLProject_11_1_1.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/oxm/schema/SchemaModelProject.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/oxm/mappings/XMLCompositeCollectionMapping.java
- /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/XRServiceModel.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/SDOTypesGenerator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/XMLConversionManager.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/xr/XRDynamicEntityVHAccessor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/SDOTypesGenerator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/XMLConversionManager.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/sdo/helper/SDOTypesGenerator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/XMLConversionManager.java
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> *   bdoughan - Mar 27/2009 - 2.0 - Initial implementation
>***********************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/CaseNode.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/CoalesceNode.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/WhenThenNode.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/MapEntryNode.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/CacheUsageIndirectionPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/ResultType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/ResultSetConcurrency.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/MetamodelFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/ResultType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/config/ResultSetConcurrency.java
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*      May 21, 2009-2.0 Chris Delahunt
*      - TODO Bug#: Bug Description
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   jar/org/eclipse/persistence/internal/expressions/ClassTypeExpression.java
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*      05/16/2008-1.0M8 Guy Pelletier
*      - 218084: Implement metadata merging functionality between mapping files
*      03/27/2009-2.0 Guy Pelletier
*      - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
*      06/25/2009-2.0 Michael O'Brien
*      - 266912: change MappedSuperclass handling in stage2 to pre process accessors
*      in support of the custom descriptors holding mappings required by the Metamodel
*      03/08/2010-2.1 Guy Pelletier
*      - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
*      04/27/2010-2.1 Guy Pelletier
*      - 309856: MappedSuperclasses from XML are not being initialized properly
*      03/24/2011-2.3 Guy Pelletier
*      - 337323: Multi-tenant with shared schema support (part 1)
*      25/05/2012-2.4 Guy Pelletier
*      - 354678: Temp classloader is still being used during metadata processing
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  * 08/31/2004-1.0M8 Guy Pelletier
  * - 171656: JavaBeans annotations for SimpleObjectGeneratorMetadata to
    support JavaBeans.
  * 02/21/2005-1.2M2 Guy Pelletier
  * - 201099: SimpleObjectGeneratorMetadata now only supports SimpleObject to
    access the metadata
  * 03/10/2008-1.0M6 Guy Pelletier
  * - 211302: Add variable 1-1 mapping support to the EclipseLink-ORM.XML Schema
******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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  * 05/16/2008-1.0M8 Guy Pelletier
  * - 218084: Implement metadata merging functionality between mapping file
  * 07/23/2010-2.2 Guy Pelletier
  * - 237902: DDL GEN doesn't qualify SEQUENCE table with persistence unit schema
  * 03/24/2011-2.3 Guy Pelletier
  * - 337323: Multi-tenant with shared schema support (part 1)
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* 10/08/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
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* 05/19/2010-2.1 ailitchev - Bug 244124 - Add Nested FetchGroup
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  * - 218084: Implement metadata merging functionality between mapping files
  * 04/27/2010-2.1 Guy Pelletier
  * - 309856: MappedSuperclasses from XML are not being initialized properly
  * 03/24/2011-2.3 Guy Pelletier
  * - 337323: Multi-tenant with shared schema support (part 1)
  * 25/05/2012-2.4 Guy Pelletier
  * - 354678: Temp classloader is still being used during metadata processing
  ******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/VersionAccessor.java
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* Oracle - initial API and implementation from Oracle TopLink
* 07/19/2011-2.2.1 Guy Pelletier
* - 338812: ManyToMany mapping in aggregate object violate integrity constraint on deletion
  *******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/OneToManyMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/ManyToManyMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/mappings/AggregateObjectMapping.java
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Oracle - initial API and implementation from Oracle TopLink
05/16/2008-1.0M8 Guy Pelletier
- 218084: Implement metadata merging functionality between mapping files
05/23/2008-1.0M8 Guy Pelletier
- 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
05/30/2008-1.0M8 Guy Pelletier
- 230213: ValidationException when mapping to attribute in MappedSuperClass
07/15/2008-1.0.1 Guy Pelletier
- 240679: MappedSuperclass Id not picked when on get() method accessor
09/23/2008-1.1 Guy Pelletier
- 241651: JPA 2.0 Access Type support
10/01/2008-1.1 Guy Pelletier
- 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
12/12/2008-1.1 Guy Pelletier
- 249860: Implement table per class inheritance support.
01/28/2009-2.0 Guy Pelletier
- 248293: JPA 2.0 Element Collections (part 1)
02/06/2009-2.0 Guy Pelletier
- 248293: JPA 2.0 Element Collections (part 2)
02/26/2009-2.0 Guy Pelletier
- 264001: dot notation for mapped-by and order-by
03/27/2009-2.0 Guy Pelletier
- 241413: JPA 2.0 Add EclipseLink support for Map type attributes
04/03/2009-2.0 Guy Pelletier
- 241413: JPA 2.0 Add EclipseLink support for Map type attributes
04/24/2009-2.0 Guy Pelletier
- 270011: JPA 2.0 MappedById support
10/21/2009-2.0 Guy Pelletier
- 290567: mappedbyid support incomplete
11/06/2009-2.0 Guy Pelletier
- 286317: UniqueConstraint xml element is changing (plus couple other fixes, see bug)
01/22/2010-2.0.1 Guy Pelletier
- 294361: incorrect generated table for element collection attribute overrides
01/26/2010-2.0.1 Guy Pelletier
- 299893: @MapKeyClass does not work with ElementCollection
03/29/2010-2.1 Guy Pelletier
- 267217: Add Named Access Type to EclipseLink-ORM
04/09/2010-2.1 Guy Pelletier
- 307050: Add defaults for access methods of a VIRTUAL access type
04/27/2010-2.1 Guy Pelletier
- 309856: MappedSuperclasses from XML are not being initialized properly
05/04/2010-2.1 Guy Pelletier
- 309373: Add parent class attribute to EclipseLink-ORM
05/14/2010-2.1 Guy Pelletier
* - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 06/22/2010-2.2 Guy Pelletier
* - 308729: Persistent Unit deployment exception when mapped superclass has no annotations but has lifecycle callbacks
* 07/05/2010-2.1.1 Guy Pelletier
* - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
* 09/16/2010-2.2 Guy Pelletier
* - 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
* 12/01/2010-2.2 Guy Pelletier
* - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
* 12/02/2010-2.2 Guy Pelletier
* - 251554: @ExcludeDefaultMapping annotation needed
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 04/04/2012-2.3.3 Guy Pelletier
* - 362180: ConcurrentModificationException on predeploy for AttributeOverride
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/accessors/classes/ClassAccessor.java
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 05/23/2008-1.0M8 Guy Pelletier
* - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
* 07/15/2008-1.0.1 Guy Pelletier
* - 240679: MappedSuperclass Id not picked when on get() method accessor
* 09/23/2008-1.1 Guy Pelletier
* - 241651: JPA 2.0 Access Type support
* 10/01/2008-1.1 Guy Pelletier
* - 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 02/26/2009-2.0 Guy Pelletier
* - 264001: dot notation for mapped-by and order-by
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/03/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedById support
* 06/25/2009-2.0 Michael O'Brien
* - 266912: change MappedSuperclass handling in stage2 to pre process accessors
  * in support of the custom descriptors holding mappings required by the Metamodel
* 04/09/2010-2.1 Guy Pelletier
* - 307050: Add defaults for access methods of a VIRTUAL access type
* 05/04/2010-2.1 Guy Pelletier
* - 309373: Add parent class attribute to EclipseLink-ORM
* 05/14/2010-2.1 Guy Pelletier
* - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
* 06/01/2010-2.1 Guy Pelletier
* - 315195: Add new property to avoid reading XML during the canonical model generation
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 07/05/2010-2.1.1 Guy Pelletier
* - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
* 09/16/2010-2.2 Guy Pelletier
* - 283028: Add support for letting an @Embeddable extend a @MappedSuperclass
* 12/01/2010-2.2 Guy Pelletier
* - 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
* 12/02/2010-2.2 Guy Pelletier
* - 251554: ExcludeDefaultMapping annotation needed
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2- jar/org/eclipse/persistence/internal/jpa/metadata/accessors/classes/EmbeddableAccessor.java

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  * gonural - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/metadatasources/SimpleHomogeneousListMetadataSource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/metadatasources/SingleResultQueryListMetadataSource.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/util/metadatasources/MultiResultQueryListItemMetadataSource.java
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* 05/19/2010-2.1 ailitchev - Bug 244124 - Add Nested FetchGroup
* 09 Jan 2013-2.5 Gordon Yorke
* - 397772: JPA 2.1 Entity Graph Support
**********************************************************************************

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/AttributeItem.java
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* bdoughan - July 30/2009 - 2.0 - Initial implementation
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 05/04/2010-2.1 Guy Pelletier
* - 309373: Add parent class attribute to EclipseLink-ORM
* 05/14/2010-2.1 Guy Pelletier
* - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
* 01/25/2011-2.3 Guy Pelletier
* - 333488: Serializable attribute being defaulted to a variable one to one mapping and causing exception
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/accessors/objects/MetadataClass.java
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 03/27/2009-2.0 Guy Pelletier
*******************************************************************************/
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedNativeQueryMetadata.java
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* Contributors:
*     Markus Karg and Oracle - initial API and implementation from Oracle TopLink and TopLink Essentials
*     05/16/2008-1.0 Markus Karg - 237843: CONCAT must be translated into || instead of +
*
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/database/SQLAnywherePlatform.java
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  * tware - part of fix for bug 351186

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  jar/org/eclipse/persistence/animations/DeleteAll.java
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  * - rbarkhouse - 04 November 2011 - 2.4 - Initial implementation

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  jar/org/eclipse/persistence/sdo/AbstractExternalizableDelegator.java
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  * 05/16/2008-1.0M8 Guy Pelletier

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Open Source Used In CKC - Time Series Data Engine 1.2.2.4  1092
* - 218084: Implement metadata merging functionality between mapping files
* 06/20/2008-1.0 Guy Pelletier
* - 232975: Failure when attribute type is generic
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 06/02/2009-2.0 Guy Pelletier
* - 278768: JPA 2.0 Association Override Join Table
* 09/29/2009-2.0 Guy Pelletier
* - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 09/03/2010-2.2 Guy Pelletier
* - 317286: DB column length not in sync between @Column and @JoinColumn
* 01/04/2011-2.3 Guy Pelletier
* - 330628: @PrimaryKeyJoinColumn(...) is not working equivalently to @JoinColumn(..., insertable = false,
updatable = false)
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/BasicCollectionAccessor.java

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* tware - updates for new SessionProfiling API
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* Matt MacIvor - initial implementation (2.3.3)
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jar/org/eclipse/persistence/internal/oxm/record/namespaces/PrefixMapperNamespaceResolver.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/NamespacePrefixMapper.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/namespaces/NamespacePrefixMapperWrapper.java

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* Guy Pelletier (Oracle), February 28, 2007
* - New file introduced for bug 217880.
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
* 12/18/2009-2.1 Guy Pelletier
* - 211323: Add class extractor support to the EclipseLink-ORM.XML Schema
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
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* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
******************************************************************************

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/queries/ReadAllQuery.java
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* mmacivor - June 19/2008 - 1.0 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* 08/23/2010-2.2 Michael O'Brien
* - 323043: application.xml module ordering may cause weaving not to occur causing an NPE.
*     warn if expected "_persistence_*_vh" method not found
*     instead of throwing NPE during deploy validation.
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM

******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/annotations/XmlKey.java
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*     dmccann - September 14/2010 - 2.2 - Initial implementation
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/annotations/XmlJoinNode.java
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*     James Sutherland - initial API and implementation
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/Partitioned.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/PinnedPartitioning.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/RoundRobinPartitioning.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/ValuePartition.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/ValuePartitioning.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/ReplicationPartitioning.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/UnionPartitioning.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/UuidGenerator.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/platform/database/oracle/dcn/OracleChangeNotificationListener.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/platform/database/oracle/dcn/OracleChangeNotificationListener.java
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* Gyorke
* 05/28/2008-1.0M8 Andrei Ilitchev

Open Source Used In CKC - Time Series Data Engine 1.2.2.4 1100
* - 224964: Provide support for Proxy Authentication through JPA.
* Now properties' names that could be used both in createEM and createEMF are the same.

******************************************************************************/
/**
 * This property is used to specify proxy type that should be passed to OracleConnection.openProxySession
 * method.
 * Requires Oracle jdbc version 10.1.0.2 or later.
 * Requires Oracle9Platform or later as a database platform
 * (TARGET_DATABASE property value should be TargetDatabase.Oracle9 or later).
 * The valid values are:
 * OracleConnection.PROXYTYPE_USER_NAME,
 * OracleConnection.PROXYTYPE_DISTINGUISHED_NAME, OracleConnection.PROXYTYPE_CERTIFICATE.
 * Property property corresponding to the specified type should be also provided:
 * OracleConnection.PROXY_USER_NAME, OracleConnection.PROXY_DISTINGUISHED_NAME,
 * OracleConnection.PROXY_CERTIFICATE.
 * Typically these properties should be set into EntityManager (either through createEntityManager method or
 * using proprietary setProperties method on EntityManagerImpl) - that causes EntityManager to use proxy
 * connection for
 * writing and reading inside transaction.
 * If proxy-type and the corresponding proxy property set into EntityManagerFactory then all connections
 * created by the factory will be proxy connections.
 * The property cannot be applied to existing active persistence unit context.
 * The context could be removed by calling clear method on the EntityManager when there is no active
 * transaction.
 */

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/config/EntityManagerProperties.java
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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* bdoughan - Mar 18/2009 - 2.0 - Dynamically generated impl classes now
* implement correct interface.
******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/annotations/XmlMarshalNullRepresentation.java
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* 05/09/2011 Andrei Ilitchev (Oracle) - initial API and implementation
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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/StaticWeaveInfo.java
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```
* Contributors:
  * 12/2/2009-2.1 Guy Pelletier
  * - 296612: Add current annotation only metadata support of return insert/update to the EclipseLink-ORM.XML Schema
  * 04/27/2010-2.1 Guy Pelletier
  * - 309856: MappedSuperclasses from XML are not being initialized properly
  * 03/24/2011-2.3 Guy Pelletier
  * - 337323: Multi-tenant with shared schema support (part 1)

****************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/mappings/ReturnInsertMetadata.java
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* Oracle - initial API and implementation from Oracle TopLink               *
* 08/23/2010-2.2 Michael O'Brien                                           *
* - 323043: application.xml module ordering may cause weaving not to occur causing an NPE. *
*     warn if expected "_persistence_*_vh" method not found                  *
*     instead of throwing NPE during deploy validation.                     *
* 30/05/2012-2.4 Guy Pelletier                                              *
* - 354678: Temp classloader is still being used during metadata processing *
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/security/PrivilegedAccessHelper.java
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Oracle - initial API and implementation

02/08/2012-2.4 Guy Pelletier

- 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

******************************************************************************/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999-945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedStoredFunctionQueryMetadata.java

* /opt/cola/permits/1272323593_1653633999-945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/queries/NamedPLSQLStoredFunctionQueryMetadata.java

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* Oracle - initial API and implementation from Oracle TopLink
* @author mobrien
* @since EclipseLink 1.1 enh# 248748
* 10/20/2008-1.1M4 Michael O’Brien
* - 248748: Add WebLogic 10.3 specific JMX MBean attributes and functions
* see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/248748</link>

*******************************************************************************/

Found in path(s):

* /opt/cola/permits/1272323593_1653633999-945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/services/weblogic/MBeanWebLogicRuntimeServices.java

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* 02/08/2012-2.4 Guy Pelletier

*******************************************************************************
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls

******************************************************************************

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/ConstructorResult.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/ConstructorResultMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/ColumnResultMetadata.java

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* Blaise Doughan = 2.1 - Initial contribution

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jaxb/many/MultiDimensionalArrayValue.java

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  jar/org/eclipse/persistence/internal/libraries/asm/xml/Processor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/libraries/asm/xml/SAXAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/libraries/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/libraries/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/libraries/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/libraries/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/libraries/asm/xml/SAXClassAdapter.java
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* tware - initial implementation as part of extensibility feature
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  jar/org/eclipse/persistence/internal/jpa/EntityManagerFactoryImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/EntityManagerFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 06/09/2009-2.0 Guy Pelletier
* - 249037: JPA 2.0 persisting list item index
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 04/05/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 3)
*******************************************************************************

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/metadata/columns/DiscriminatorColumnMetadata.java

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* mobrien - initial API and implementation
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jar/org/eclipse/persistence/internal/helper/JPAClassLoaderHolder.java
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* 08/10/2009-2.0 Guy Pelletier
* - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes
* 08/25/2010-2.2 Guy Pelletier
* - 309445: CanonicalModelProcessor process all files
* 11/23/2010-2.2 Guy Pelletier
* - 330660: Canonical model generator throws ClassCastException when using package-info.java
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/jpa/modelgen/visitors/ElementVisitor.java
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* Oracle - initial API and implementation from Oracle TopLink
* tware - added handling of database delimiters
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/helper/DatabaseTable.java
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  * bdoughan - October 21/2009 - 2.0 - Initial implementation
 sscanf

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  * 06/18/2009 Andrei Ilitchev
  * JPA 2.0 - OrderedList support.

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Oracle - initial API and implementation from Oracle TopLink
05/16/2008-1.0M8 Guy Pelletier
- 218084: Implement metadata merging functionality between mapping files
05/23/2008-1.0M8 Guy Pelletier
- 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
05/30/2008-1.0M8 Guy Pelletier
- 230213: ValidationException when mapping to attribute in MappedSuperClass
06/20/2008-1.0M9 Guy Pelletier
- 232975: Failure when attribute type is generic
07/15/2008-1.0.1 Guy Pelletier
- 240679: MappedSuperclass Id not picked when on get() method accessor
09/23/2008-1.1 Guy Pelletier
- 241651: JPA 2.0 Access Type support
10/01/2008-1.1 Guy Pelletier
- 249329: To remain JPA 1.0 compliant, any new JPA 2.0 annotations should be referenced by name
12/12/2008-1.1 Guy Pelletier
- 249860: Implement table per class inheritance support.
01/28/2009-2.0 Guy Pelletier
- 248293: JPA 2.0 Element Collections (part 1)
02/06/2009-2.0 Guy Pelletier
- 248293: JPA 2.0 Element Collections (part 2)
02/25/2009-2.0 Guy Pelletier
- 265359: JPA 2.0 Element Collections - Metadata processing portions
03/27/2009-2.0 Guy Pelletier
- 241413: JPA 2.0 Add EclipseLink support for Map type attributes
04/24/2009-2.0 Guy Pelletier
- 270011: JPA 2.0 MappedById support
06/02/2009-2.0 Guy Pelletier
- 278768: JPA 2.0 Association Override Join Table
06/16/2009-2.0 Guy Pelletier
- 277039: JPA 2.0 Cache Usage Settings
06/25/2009-2.0 Michael O'Brien
- 266912: add isMappedSuperclass() helper function in support
  of MappedSuperclass handling for the Metamodel API.
08/11/2009-2.0 Michael O'Brien
- 284147: So we do not add a pseudo PK Field for MappedSuperclasses when
  1 or more PK fields already exist on the descriptor.
  Add m_idAccessor map and hasIdAccessor() function.
10/21/2009-2.0 Guy Pelletier
* 290567: mappedbyid support incomplete
* 01/05/2010-2.1 Guy Pelletier
* 211324: Add additional event(s) support to the EclipseLink-ORM.XML Schema
* 01/22/2010-2.0.1 Guy Pelletier
* 294361: incorrect generated table for element collection attribute overrides
* 03/08/2010-2.1 Michael O'Brien
* 300051: JPA 2.0 Metamodel processing requires EmbeddedId validation moved higher from
  EmbeddedIdAccessor.process() to MetadataDescriptor.addAccessor() so we
  can better determine when to add the MAPPED_SUPERCLASS_RESERVED_PK_NAME
  temporary PK field used to process MappedSuperclasses for the Metamodel API
  during MetadataProject.addMetamodelMappedSuperclass()
* 04/09/2010-2.1 Guy Pelletier
* 307050: Add defaults for access methods of a VIRTUAL access type
* 05/03/2009-1.2.1 Guy Pelletier
* 307547: Exception in order by clause after migrating to eclipselink 1.2 release
* 06/01/2010-2.1 Guy Pelletier
* 315195: Add new property to avoid reading XML during the canonical model generation
* 06/14/2010-2.2 Guy Pelletier
* 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 06/18/2010-2.2 Guy Pelletier
* 300458: EclispeLink should throw a more specific exception than NPE
* 07/16/2010-2.2 Guy Pelletier
* 260296: mixed access with no Transient annotation does not result in error
* 08/04/2010-2.1.1 Guy Pelletier
* 315782: IPA2 derived identity metadata processing validation doesn't account for autoboxing
* 08/11/2010-2.2 Guy Pelletier
* 312123: JPA: Validation error during Id processing on parameterized generic OneToOne Entity relationship from MappedSuperclass
* 09/03/2010-2.2 Guy Pelletier
* 317286: DB column length not in sync between @Column and @JoinColumn
* 10/15/2010-2.2 Guy Pelletier
* 322008: Improve usability of additional criteria applied to queries at the session/EM
* 10/27/2010-2.2 Guy Pelletier
* 328114: @AttributeOverride does not work with nested embeddables having attributes of the same name
* 12/01/2010-2.2 Guy Pelletier
* 331234: xml-mapping-metadata-complete overridden by metadata-complete specification
* 12/02/2010-2.2 Guy Pelletier
* 251554: ExcludeDefaultMapping annotation needed
* 03/24/2011-2.3 Guy Pelletier
* 337323: Multi-tenant with shared schema support (part 1)
* 04/01/2011-2.3 Guy Pelletier
* 337323: Multi-tenant with shared schema support (part 2)
* 09/09/2011-2.3.1 Guy Pelletier
* 356197: Add new VPD type to MultitenantType
* 11/10/2011-2.4 Guy Pelletier
* 357474: Address primaryKey option from tenant discriminator column
* 25/05/2012-2.4 Guy Pelletier
* 354678: Temp classloader is still being used during metadata processing
Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/metadata/MetadataDescriptor.java
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* Contributors:
* 08/10/2009-2.0 Guy Pelletier
  * - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes
* 11/20/2009-2.0 Guy Pelletier/Mitesh Meswani
  * - 295376: Improve usability of MetaModel generator
* 04/29/2010-2.0.3 Guy Pelletier
  * - 311020: Canonical model generator should not throw an exception when no persistence.xml is found
* 06/01/2010-2.1 Guy Pelletier
  * - 315195: Add new property to avoid reading XML during the canonical model generation
*******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2.jar/org/eclipse/persistence/internal/jpa/modelgen/objects/PersistenceUnitReader.java
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* 12/18/2009-2.1 Guy Pelletier
  * - 211323: Add class extractor support to the EclipseLink-ORM.XML Schema
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/annotations/ClassExtractor.java
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* Oracle - initial API and implementation from Oracle TopLink
* 05/26/2009-2.0 mobrien - 266912: Add implementation of IdentifiableType
* as EntityType inherits here instead of ManagedType as of rev# 4265
* 09/23/2009-2.0 mobrien - 266912: Implement hasSingleIdAttribute() and
* all other 6 remaining methods for Id and Version support.
* DI 71 - 77 and 56
* http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_74:_20090909:_Implement_IdentifiableType.hasSingleIdAttribute.28.29
* 10/21/2009-2.0 Guy Pelletier
* - 290567: mappedbyid support incomplete
* 06/14/2010-2.1 mobrien - 314906: getJavaType should return the
* collection javaType C in <X,C,V> of <X, List<V>, V> instead off the elementType V.
* Because of this we switch to using getBindableJavaType() in getIdType()
* 08/06/2010-2.2 mobrien 322018 - reduce protected instance variables to private to enforce encapsulation
*******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa.metamodel/IdentifiableTypeImpl.java
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  jar/org/eclipse/persistence/descriptors/partitioning/PinnedPartitioningPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/descriptors/partitioning/ReplicationPartitioningPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/descriptors/partitioning/CustomPartitioningPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/descriptors/partitioning/HashPartitioningPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/descriptors/partitioning/RoundRobinPartitioningPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/descriptors/partitioning/FieldPartitioningPolicy.java
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*     tware - 1.0 - Taken from Eclipse Wiki - http://wiki.eclipse.org/index.php/BundleProxyClassLoader_recipe
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*     James Sutherland - allow for zero ids
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* Oracle - initial API and implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/jpql/parser/BetweenExpression.java
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* Rick Barkhouse - 2.2 - Initial implementation

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJavaModelImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJavaConstructorImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJavaPackageImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJavaMethodImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMJAXBElementImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/oxm/OXMObjectFactoryImpl.java
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  dmccann - December 22/2010 - 2.3 - Initial implementation
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  * 14/05/2012-2.4 Guy Pelletier
  * - 376603: Provide for table per tenant support for multitenant applications
  * 22/05/2012-2.4 Guy Pelletier
  * - 380008: Multitenant persistence units with a dedicated emf should force tenant property specification up front.
  * 31/05/2012-2.4 Guy Pelletier
  * - 381196: Multitenant persistence units with a dedicated emf should allow for DDL generation.
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* Gordon Yorke - ER 214661 - VM Managed Entity Detachment
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* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
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* Oracle - Dec 2008 proof-of-concept
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  * Oracle - initial API and implementation from Oracle TopLink
  * Dies Koper - add support for creating indices on tables
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  jar/org/eclipse/persistence/tools/schemaframework/SchemaManager.java
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  * 05/16/2008-1.0M8 Guy Pelletier
    * - 218084: Implement metadata merging functionality between mapping files
  * 06/20/2008-1.0 Guy Pelletier
    * - 232975: Failure when attribute type is generic
  * 08/27/2008-1.1 Guy Pelletier
    * - 211329: Add sequencing on non-id attribute(s) support to the EclipseLink-ORM.XML Schema
  * 09/23/2008-1.1 Guy Pelletier
    * - 241651: JPA 2.0 Access Type support
  * 01/28/2009-2.0 Guy Pelletier
    * - 248293: JPA 2.0 Element Collections (part 1)
  * 02/06/2009-2.0 Guy Pelletier
    * - 248293: JPA 2.0 Element Collections (part 2)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/24/2009-2.0 Guy Pelletier
* - 270011: JPA 2.0 MappedByld support
* 10/21/2009-2.0 Guy Pelletier
* - 290567: mappedbyid support incomplete
* 12/2/2009-2.1 Guy Pelletier
* - 296612: Add current annotation only metadata support of return insert/update to the EclipseLink-ORM.XML Schema
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 07/05/2010-2.1.1 Guy Pelletier
* - 317708: Exception thrown when using LAZY fetch on VIRTUAL mapping
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 07/03/2011-2.3.1 Guy Pelletier
* - 348756: m_cascadeOnDelete boolean should be changed to Boolean

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/descriptors/ChangedFieldsLockingPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/indirection/IndirectionPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/expressions/SQLDeleteAllStatement.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/tools/schemaframework/NestedTableDefinition.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/descriptors/DescriptorIterator.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/eis/EISException.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/factories/model/transport/Oc4jJGroupsTransportManagerConfig.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/record/deferred/StartPrefixMappingEvent.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/AggregateNode.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/helper/linkedlist/ExposedNodeLinkedList.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/ParameterNode.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/xml/XMLNodeList.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/oxm/documentpreservation/NoDocumentPreservationPolicy.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/compiler/AnnotationsProcessor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/InNode.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/InNode.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/DistributedSessionIdentityMapAccessor.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/DatabaseSession.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sessions/changesets/UnitOfWorkChangeSet.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/eis/mappings/EISCompositeCollectionMapping.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/eis/mappings/EISOneToManyMapping.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/eis/mappings/UnmarshalKeepAsElementPolicy.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/oxm/mappings/UnmarshalKeepAsElementPolicy.java
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  /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/queries/DataReadQuery.java
  /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/platform/xml/jaxp/JAXPNamespaceContext.java
  /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/eis/interactions/XMLInteraction.java
  /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/parsing/SizeNode.java
  /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
Open Source Used In CKC - Time Series Data Engine 1.2.2.4 1169
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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/sdo/helper/metadata/TypeStringConverter.java
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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/expressions/ExpressionOperator.java
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  * matt.macivor - added as part of fix for SDO 2.1.1 TCK typeHelper test cases
******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/platform/database/XMLTypePlaceholder.java
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  * Oracle - initial API and implementation from Oracle TopLink
  * Markus Karg - allow arguments to be specified multiple times in argumentIndices
  * 05/07/2009-1.1.1 Dave Brosius
  * - 263904: [PATCH] ExpressionOperator doesn't compare arrays correctly
******************************************************************************/

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Contributors:
- David McCann - December 02, 2011 - 2.4 - Initial implementation

Contributors:
- dclarke/tware - initial

Contributors:
- dclarke, mnorman - Dynamic Persistence
* (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)
* dclarke - Bug 387240: added field and method calls to allow extensibility
* 
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/dynamic/DynamicClassWriter.java

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 *  * Denise Smith - April 7, 2011
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/DefaultXMLNameTransformer.java

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  jar/org/eclipse/persistence/jpql/spi/IExternalForm.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpql/spi/IEntity.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/oxm/record/XMLEntry.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/oxm/record/XMLEventWriterRecord.java
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*
* Contributors:
* mmacivor - September 09/2009 - 1.0 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/sessions/server/ConnectionPolicy.java
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Contributors:
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/annotations/MapKeyConvert.java

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* gonural - initial

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/rs/util/metadatasources/JavaMathMetadataSource.java
  
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/rs/util/list/MultiResultQueryList.java
  
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/rs/util/list/SimpleHomogeneousList.java
  
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/rs/util/list/SingleResultQueryList.java
  
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jpa/rs/util/metadatasources/JavaLangMetadataSource.java
  
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* Oracle - initial API and implementation from Oracle TopLink 
* 06/30/2011-2.3.1 Guy Pelletier 
* - 341940: Add disable/enable allowing native queries 
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/dynamic/metadata/Metadata.java 
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/oxm/record/ValidatingMarshalRecord.java 
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/deferred/CompositeMappingContentHandler.java 
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/dynamic/metadata/SchemaMetadata.java 
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/jaxb/dynamic/metadata/OXMMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/deferred/CompositeCollectionMappingContentHandler.java
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  * 08/10/2009-2.0 Guy Pelletier
  * - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes
/******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/modelgen/objects/PersistenceXMLMappings.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/modelgen/objects/PersistenceXML.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/modelgen/visitors/AnnotationValueVisitor.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/jpa/modelgen/visitors/TypeVisitor.java
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jar/org/eclipse/persistence/config/ParserValidationType.java
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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 12/12/2008-1.1 Guy Pelletier
* - 249860: Implement table per class inheritance support.
* 02/06/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 2)
* 06/02/2009-2.0 Guy Pelletier
* - 278768: JPA 2.0 Association Override Join Table
* 09/29/2009-2.0 Guy Pelletier
* - 282553: JPA 2.0 JoinTable support for OneToOne and ManyToOne
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
* - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 05/17/2012-2.3.3 Arron Ferguson
* - 379829: NPE Thrown with OneToOne Relationship

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/accessors/mappings/ManyToManyAccessor.java

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* (https://bugs.eclipse.org/bugs/show_bug.cgi?id=200045)
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/xr/XRDynamicPropertiesManager.java
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* Oracle - initial API and implementation from Oracle TopLink
* 17/10/2008-1.1 Michael O'Brien
* - 251005: The default JNDI InitialContextFactory is modified from
* OC4J: oracle.j2ee.rmi.RMIInitialContextFactory to
* WebLogic: weblogic.jndi.WLInitialContextFactory
* cdelahun - Bug 214534: changes for JMSPublishingTransportManager configuration
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/sessions/factories/XMLSessionConfigProject.java
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* 06/10/2009 Andrei Iliichev
* - JPA 2.0 - OrderedList support.
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 05/23/2008-1.0M8 Guy Pelletier
* - 211330: Add attributes-complete support to the EclipseLink-ORM.XML Schema
* 12/10/2008-1.1 Michael O'Brien
* - 257606: Add orm.xml schema validation true/(false) flag support in persistence.xml
* 01/28/2009-2.0 Guy Pelletier
* - 248293: JPA 2.0 Element Collections (part 1)
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 03/08/2010-2.1 Guy Pelletier
* - 303632: Add attribute-type for mapping attributes to EclipseLink-ORM
* 05/14/2010-2.1 Guy Pelletier
* - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)
* 09/20/2011-2.3.1 Guy Pelletier
* - 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4-2-sources-2.jar/org/eclipse/persistence/annotations/OrderCorrectionType.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4-2-sources-2.jar/org/eclipse/persistence/internal/helper/IndexedObject.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4-2-sources-2.jar/org/eclipse/persistence/internal/expressions/IndexExpression.java

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* 06/30/2010-2.1.1 Michael O'Brien
  * - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
  * Move JMX MBean generic registration code up from specific platforms
  * see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
  * 10/15/2010-2.2 Guy Pelletier
  * - 322008: Improve usability of additional criteria applied to queries at the session/EM
  * 10/28/2010-2.2 Guy Pelletier
  * - 3223850: Primary key metadata issues
  * 03/24/2011-2.3 Guy Pelletier
  * - 337323: Multi-tenant with shared schema support (part 1)
  * 04/05/2011-2.3 Guy Pelletier
  * - 337323: Multi-tenant with shared schema support (part 3)
  * 03/24/2011-2.3 Guy Pelletier
  * - 337323: Multi-tenant with shared schema support (part 8)
  * 07/11/2011-2.4 Guy Pelletier
  * - 343632: Can't map a compound constraint because of exception:
    * The reference column name [y] mapped on the element [field x]
    * does not correspond to a valid field on the mapping reference
  * 14/05/2012-2.4 Guy Pelletier
  * - 376603: Provide for table per tenant support for multitenant applications

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/internal/localization/i18n/LoggingLocalizationResource.java
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* 05/16/2008-1.0M8 Guy Pelletier
* - 218084: Implement metadata merging functionality between mapping files
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
* 04/27/2010-2.1 Guy Pelletier
* - 309856: MappedSuperclasses from XML are not being initialized properly
* 03/24/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 1)
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/converters/TypeConverterMetadata.java
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* 02/13/2013-2.5 Guy Pelletier
* - 397772: JPA 2.1 Entity Graph Support (XML support)
******************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/graphs/NamedEntityGraphMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/graphs/NamedSubgraphMetadata.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/graphs/NamedAttributeNodeMetadata.java
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* Denise Smith - November 2, 2009
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 * Oracle - initial API and implementation from Oracle TopLink
 * 05/28/2008-1.0M8 Andrei Ilitchev
 * - 224964: Provide support for Proxy Authentication through JPA.
 * Added updateConnectionPolicy method to support EXCLUSIVE_CONNECTION property.
 * Some methods, like setSessionEventListener called from deploy still used predeploy properties,
 * that meant it was impossible to set listener through createEMF property in SE case with an agent - fixed that.
 * Also if creating / closing the same emSetupImpl many times (24 in my case) "java.lang.OutOfMemoryError: PermGen space" resulted:
 * partially fixed partially worked around this - see a big comment in predeploy method.
 * 12/23/2008-1.1M5 Michael O'Brien
 * - 253701: add persistenceInitializationHelper field used by undeploy() to clear the JavaSECMPInitializer
 * 10/14/2009-2.0 Michael O'Brien
 * - 266912: add Metamodel instance field as part of the JPA 2.0 implementation
 * 10/21/2009-2.0 Guy Pelletier
 * - 290567: mappedbyid support incomplete
 * csdelahun - Bug 214534: changes to allow JMSPublishingTransportManager configuration through properties
 * 05/14/2010-2.1 Guy Pelletier
 * - 253083: Add support for dynamic persistence using ORM.xml/eclipselink-orm.xml
 * 04/01/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 2)
 * 06/30/2011-2.3.1 Guy Pelletier
 * - 341940: Add disable/enable allowing native queries
 * 09/20/2011-2.3.1 Guy Pelletier
 * - 357476: Change caching default to ISOLATED for multitenant's using a shared EMF.
 * *******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/EntityManagerSetupImpl.java
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* 03/19/2009-2.0  dclarke - initial API start
* 06/30/2009-2.0  mobrien - finish JPA Metadata API modifications in support of the Metamodel implementation for EclipseLink 2.0 release involving Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
* - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)

Contributors:
* dmccann - November 29/2010 - 2.3 - Initial implementation

Contributors:
* tware - initial

Contributors:
* 06/30/2009-2.0  mobrien - finish JPA Metadata API modifications in support of the Metamodel implementation for EclipseLink 2.0 release involving Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
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* Gordon Yorke - Initial development
*
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* Oracle - initial API and implementation from Oracle TopLink
* tware - updates for JPA 2.0 specification
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* Oracle - initial API and implementation from Oracle TopLink
* 11/13/2009-2.0 mobrien - 294765: MapKey keyType DirectToField processing
* should return attributeClassification class in getMapKeyTargetType when
* accessor.attributeField is null in the absence of a MapKey annotation
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/mappings/foundation/AbstractColumnMapping.java
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* Oracle - initial API and implementation from Oracle TopLink
* 09/09/2011-2.3.1 Guy Pelletier
* - 356197: Add new VPD type to MultitenantType
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
******************************************************************************

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/tools/schemaframework/DatabaseObjectDefinition.java
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* dmcann - June 4/2008 - 1.0M8 - Initial implementation
* dmcann - Nov. 7/2008 - Moved delegate key logic to SDOHelperContext
******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
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* Blaise Doughan - 2.4 - initial implementation
*******************************************************************************/

grammar JSON;
options {
   output=AST;
}
tokens {
  OBJECT;
  PAIR;
  STRING;
  NUMBER;
  ARRAY;
  TRUE;
  FALSE;
  NULL;
}

@lexer::header {
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* Contributors:
*   Blaise Doughan - 2.4 - initial implementation
****************************************************************************/
package org.eclipse.persistence.internal.oxm.record.json;
}

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****************************************************************************/
package org.eclipse.persistence.internal.oxm.record.json;
}

// LEXER

String : '"' Char* '"';
fragment Char : ~(""| '\')
    | '\"'
    | '\\W'
    | '\\'
    | '\b'
    | '\f'
    | '\n'
    | '\r'
    | '\t'
    | '\u' Hex_Digit Hex_Digit Hex_Digit Hex_Digit;
fragment Hex_Digit : ('0'..'9'|'a'..'f'|'A'..'F');
Number : Int Frac? Exp?;
fragment Int : '-'? Digits;
fragment Frac : '.' Digits;
fragment Exp : E Digits;
fragment Digits : '0'..'9'+;
fragment E :('e'|'E') ('+'|'-')?;
Whitespace : (' ' | '' | '	' | '' | '
')+ { $channel = HIDDEN; } ;

// PARSER
message : object | array;
object : '{' (pair (',' pair)*)? '}' -> ^(OBJECT pair*);
pair :String ':' value -> ^(PAIR String value);
array : '[' (value (',' value)*)? ']' -> ^(ARRAY value*);
value : String -> ^(STRING String)
    | Number -> ^(NUMBER Number)
    | object
    | array
    | 'true' -> TRUE
    | 'false' -> FALSE
    | 'null' -> NULL
    ;

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/oxm/record/json/JSON.g
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* Sun Microsystems
* 09/14/2011-2.3.1 Guy Pelletier
* - 357533: Allow DDL queries to execute even when Multitenant entities are part of the PU
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/platform/database/DerbyPlatform.java
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* 07/16/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
* 10/29/2010-2.2 Michael O'Brien
* - 325167: Make reserved # bind parameter char generic to enable native SQL pass through
* 04/01/2011-2.3 Guy Pelletier
* - 337323: Multi-tenant with shared schema support (part 2)
* 05/24/2011-2.3 Guy Pelletier
* - 345962: Join fetch query when using tenant discriminator column fails.
* 06/30/2011-2.3.1 Guy Pelletier
* - 341940: Add disable/enable allowing native queries
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* 08/10/2009-2.0 Guy Pelletier
*   - 267391: JPA 2.0 implement/extend/use an APT tooling library for MetaModel API canonical classes
* 04/27/2010-2.1 Guy Pelletier
*   - 309856: MappedSuperclasses from XML are not being initialized properly
* 06/14/2010-2.2 Guy Pelletier
*   - 264417: Table generation is incorrect for JoinTables in AssociationOverrides
* 08/12/2010-2.2 Guy Pelletier
*   - 298118: canonical metamodel generation with untyped Map throws NPE
* 08/25/2010-2.2 Guy Pelletier
*   - 309445: CanonicalModelProcessor process all files
* 10/18/2010-2.2 Guy Pelletier
*   - 322921: OutOfMemory in annotation processor
* 11/23/2010-2.2 Guy Pelletier
*   - 330660: Canonical model generator throws ClassCastException when using package-info.java
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* Rick Barkhouse - 2.1 - Initial implementation
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaPackageImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaModelImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaModelInputImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaAnnotationImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/dynamic/DynamicJAXBContextFactory.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaMethodImpl.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jaxb/javamodel/xjc/XJCJavaConstructorImpl.java

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* 03/19/2009-2.0 dclarke - initial API start
* 06/30/2009-2.0 mobrien - finish JPA Metadata API modifications in support
  of the Metamodel implementation for EclipseLink 2.0 release involving
* Map, ElementCollection and Embeddable types on MappedSuperclass descriptors
* - 266912: JPA 2.0 Metamodel API (part of the JSR-317 EJB 3.1 Criteria API)
* 07/06/2009-2.0 mobrien - 266912: Introduce IdentifiableTypeImpl between ManagedTypeImpl
* - EntityTypeImpl now inherits from IdentifiableTypeImpl instead of ManagedTypeImpl
* - MappedSuperclassTypeImpl now inherits from IdentifiableTypeImpl instead
  of implementing IdentifiableType indirectly
* 07/16/2009-2.0 mobrien - 266912: implement getIdType() minus full composite key support
* http://wiki.eclipse.org/EclipseLink/Development/JPA_2.0/metamodel_api#DI_47:_20090715:_Implement_IdentifiableType.getIdType.28.29_for_composite_keys
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  jar/org/eclipse/persistence/descriptors/CMPPolicy.java

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  jar/org/eclipse/persistence/jpa/rs/util/xmladapters/LinkAdapter.java

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  * 12/17/2010-2.2 Guy Pelletier
  * - 330755: Nested embeddables can't be used as embedded ids
  * 11/10/2011-2.4 Guy Pelletier
  * - 357474: Address primaryKey option from tenant discriminator column
  * 14/05/2012-2.4 Guy Pelletier
  * - 376603: Provide for table per tenant support for multitenant applications

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  * tware - initial unmarshall method
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* 03/26/2008-1.0M6 Guy Pelletier
* - 211302: Add variable 1-1 mapping support to the EclipseLink-ORM.XML Schema
* 03/27/2009-2.0 Guy Pelletier
* - 241413: JPA 2.0 Add EclipseLink support for Map type attributes
******************************************************************************/

Found in path(s):
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  * @author mobrien
  * @since EclipseLink 2.1.1 enh# 316510
  * 06/30/2010-2.1.1 Michael O'Brien
  * - 316513: Enable JMX MBean functionality for JBoss, Glassfish and WebSphere in addition to WebLogic
  * Move JMX MBean generic registration code up from specific platforms
  * see <link>http://wiki.eclipse.org/EclipseLink/DesignDocs/316513</link>
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/websphere/ClassSummaryDetail.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/websphere/MBeanWebSphereRuntimeServicesMBean.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/websphere/WebSphereRuntimeServices.java
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/jpa/rs/logging/LoggingLocalization.java
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* Thomas Spiegl - fix for bug 324406
* 10/15/2010-2.2 Guy Pelletier
* - 322008: Improve usability of additional criteria applied to queries at the session/EM
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/ExpressionQueryMechanism.java
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* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
* 25/05/2012-2.4 Guy Pelletier
* - 354678: Temp classloader is still being used during metadata processing
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 * 01/25/2011-2.3 Guy Pelletier
 * - 333913: @OrderBy and <order-by/> without arguments should order by primary
 * 03/24/2011-2.3 Guy Pelletier
 * - 337323: Multi-tenant with shared schema support (part 1)
 * 04/09/2012-2.4 Guy Pelletier
 * - 374377: OrderBy with ElementCollection doesn't work
 */

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2.4.2-sources-2-jar/org/eclipse/persistence/internal/jpa/metadata/mappings/OrderByMetadata.java

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*  Oracle - initial API and implementation from Oracle TopLink
*  31/05/2010-2.1 Michael O'Brien
*  - 312503: invalidateClass(Class, recurseFlag) - when recurseFlag=false
*  (non-default) will now invalidate the implementing subtree
*  from [Class] down. Previously only the single Class inside the tree was invalidated.
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653639999.945664/0/eclipselink-2-4-2-sources-2-
jar/org/eclipse/persistence/internal/sessions/IdentityMapAccessor.java
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Found in path(s):
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  jar/org/eclipse/persistence/jaxb/xmlmodel/XmlInverseReference.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/jaxb/javamodel/reflection/AnnotationHelper.java
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*     Oracle - initial API and implementation from Oracle TopLink  
*     07/19/2011-2.2.1 Guy Pelletier  
*     - 338812: ManyToMany mapping in aggregate object violate integrity constraint on deletion  
*     04/09/2012-2.4 Guy Pelletier  
*     - 374377: OrderBy with ElementCollection doesn't work  
*     14/05/2012-2.4 Guy Pelletier  
*     - 376603: Provide for table per tenant support for multitenant applications  
*     25/05/2012-2.4 Guy Pelletier  
*     - 354678: Temp classloader is still being used during metadata processing  
*******************************************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-
  jar/org/eclipse/persistence/mappings/DirectCollectionMapping.java
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*     @author mobrien  
*     @since EclipseLink 1.0 enh# 235168
Found in path(s):
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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/mbean/MBeanDevelopmentServices.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/DevelopmentServices.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/mbean/MBeanDevelopmentServicesMBean.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/RuntimeServices.java
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/services/mbean/MBeanRuntimeServicesMBean.java
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* Contributors:
* Oracle - initial API and implementation from Oracle TopLink
* Gordon Yorke - VM managed entity detachment
* Eduard Bartsch, SAP - Fix for Bug 351186 - ConcurrentModificationException Exception in PropertiesHandler
/*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/PropertiesHandler.java
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* tware - initial implementation
* tware - implementation of basic CRUD functionality
* 11/10/2011-2.4 Guy Pelletier
* - 357474: Address primaryKey option from tenant discriminator column
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
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Found in path(s):
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/queries/MappedKeyMapContainerPolicy.java
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* Oracle - initial API and implementation from Oracle TopLink
* Zoltan NAGY & tware - updated support for MaxRows
* 11/01/2010-2.2 Guy Pelletier
* - 322916: getParameter on Query throws NPE
* - 329089: PERF: EJBQueryImpl.setParameterInternal() move indexOf check inside non-native block
* 02/08/2012-2.4 Guy Pelletier
* - 350487: JPA 2.1 Specification defined support for Stored Procedure Calls
*******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/jpa/EJBQueryImpl.java
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* Oracle - initial API and implementation from Oracle TopLink
* 05/28/2008-1.0M8 Andrei Ilitchev
* - 224964: Provide support for Proxy Authentication through JPA.
* The class was amended to allow it to instantiate ValueHolders after release method has been called
* (internalExecuteQuery method no longer throws exception if the uow is dead).
* Note that release method clears change sets but keeps the cache.
* 02/11/2009-1.1 Michael O'Brien
* - 259993: 1) Defer a full clear(true) call from entityManager.clear() to release()
* only if uow lifecycle is 1,2 or 4 (*Pending) and perform a clear of the cache only in this case.
* 2) During mergeClonesAfterCompletion() If the the acquire and release threads are different
* switch back to the stored acquire thread stored on the mergeManager.
* 17/04/2009-1.1 Michael O'Brien
* - 272022: For rollback scenarios - If the current thread and the active thread
* on the mutex do not match for read locks (not yet transitioned to deferred locks) - switch them
* 07/16/2009-2.0 Guy Pelletier
* - 277039: JPA 2.0 Cache Usage Settings
* 07/15/2011-2.2.1 Guy Pelletier
* - 349424: persists during an preCalculateUnitOfWorkChangeEvent event are lost
* 14/05/2012-2.4 Guy Pelletier
* - 376603: Provide for table per tenant support for multitenant applications
*******************************************************************************/

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* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/about.html
* /opt/cola/permits/1272323593_1653633999.945664/0/eclipselink-2-4-2-sources-2-jar/org/eclipse/persistence/internal/sessions/UnitOfWorkImpl.java
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  * Oracle - initial API and implementation from Oracle TopLink
  * tware - March 13, 2008 - 1.0M6 - JavaDoc rewrite
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  jar/org/eclipse/persistence/annotations/Noncacheable.java

1.86 jetty-servlet 9.3.27.v20190418

1.87 hadoop-yarn-api 3.1.0
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For src/main/native/src/org/apache/hadoop/io/compress/lz4{/lz4.h,lz4.c,lz4hc.h,lz4hc.c}:

/*
LZ4 - Fast LZ compression algorithm
Header File
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You can contact the author at:
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- LZ4 public forum: https://groups.google.com/forum/#!forum/lz4c

*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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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 (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.
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  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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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseMinimalStemmer.java
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* /opt/cola/permits/1258617702_1643096318.45/0/netty-resolver-dns-classes-macos-4-1-71-final-sources-jar/io/netty/resolver/dns/macOS/MacOSDnsServerAddressStreamProvider.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/.CtPrimitiveType.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java

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

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 */
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/Annotation.java
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jar/javassist/bytecode/annotation/ArrayMemberValue.java
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/*

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS
   uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
   int rcount;
   int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

Files: *
========

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1.116 jsp 2.3.1
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/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections. *
 * @param securePort the secure port to redirect to.
 */

/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections. *
 * @param secureScheme A scheme string like "https"
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
  jar/org/eclipse/jetty/server/HttpConfiguration.java
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  jar/org/eclipse/jetty/server/handler/MovedContextHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
  jar/org/eclipse/jetty/server/DebugListener.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
  jar/org/eclipse/jetty/server/handler/jmx/AbstractHandlerMBean.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
  jar/org/eclipse/jetty/server/Authentication.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
  jar/org/eclipse/jetty/server/ScopedHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-
  jar/org/eclipse/jetty/server/HttpInput.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/Handler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/AsyncDelayHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/JDBCSessionManager.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/AsyncNCSARequestLog.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/AbstractSessionManager.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/jmx/AbstractSessionManagerMBean.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/SessionManager.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/SessionHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/NegotiatingServerConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/IPAccessHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/HttpWrapper.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/HttpConnection.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/HttpTransport.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/HttpOutput.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/NCSAResponseHttpWrapper.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/NCSAResponseHttpWrapper.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/AsyncNCSARequestLog.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/AsyncConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/NegotiatingServerConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/HandlerWrapper.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/InetAccessHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/gzip/package-info.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/jmx/package-info.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/jmx/AbstractConnectorMBean.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/jmx/AbstractSessionManagerMBean.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/ManagedAttributeListener.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/InetAccessHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/jmx/package-info.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/session/JDBCSessionManager.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/session/AbstractSessionManager.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/ShutdownMonitor.java

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* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/AbstractSessionIdManager.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/jmx/package-info.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/SessionIdManager.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/session/AbstractNCSARequestLog.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/AbstractHandlerContainer.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/package-info.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/RequestLog.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/LocalConnector.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/DebugHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/ResourceHandler.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/handler/package-info.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/ClassLoaderDump.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/ConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1016747988_1592072752.44/0/jetty-server-9-3-20-v20170531-sources-jar/org/eclipse/jetty/server/MultiPartCleanerListener.java
1.122 commons-beanutils 1.9.3

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1.123 nimbus-jose-jwt 4.41.1

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Since 2.4 there are special exceptions for JSON Tree model

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1.126 spring-framework 5.2.5.RELEASE

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
  jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-
  jar/org/springframework/core/convert/support/PropertiesToStringConverter.java

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/asm/FieldWriter.java
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jar/org/springframework/core/task/TaskTimeoutException.java
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jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/package-info.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/io/ConnectionManager.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/io/package-info.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/io/WebSocketClientSelectorManager.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/masks/package-info.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/io/UpgradeListener.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/masks/FixedMasker.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/ClientUpgradeResponse.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/client/io/UpgradeConnection.java
* /opt/cola/permits/1272432884_1645007171.44/0/websocket-client-9-3-25-v20180904-sources-jar
1.131 jackson-jaxrs 2.9.9
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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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* javax.transaction:javax.transaction-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/Compressor.java
* /opt/cola/permits/1129089941_1612175547.76/0/json-20140107-sources-jar/org/json/zip/MapKeep.java
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1.150 jetty-util 9.4.20.v20190813

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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:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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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

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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

------

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

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1.151 commons-collections 4.3

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* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/CloseInfo.java
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* /opt/cola/permits/1272441339_1645007201.6/0/websocket-common-9-3-20-v20170531-sources-jar/org/eclipse/jetty/websocket/common/events/EventDriverImpl.java
1.155 netty-handler 4.1.71.Final

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  jar/io/netty/handler/timeout/WriteTimeoutException.java
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  jar/io/netty/handler/timeout/IdleStateEvent.java
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  jar/io/netty/handler/pcap/PcapWriter.java
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  jar/io/netty/handler/pcap/IPPacket.java
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  jar/io/netty/handler/pcap/TCPPacket.java
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  jar/io/netty/handler/pcap/package-info.java
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  jar/io/netty/handler/pcap/PcapWriteHandler.java
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  jar/io/netty/handler/ssl/AsyncRunnable.java
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  jar/io/netty/handler/ssl/Ciphers.java
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jar/io/netty/handler/ssl/OpenSslSessionId.java
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jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
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jar/io/netty/handler/ssl/GroupsConverter.java
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jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
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  jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
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  jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
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* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1258617753_1643096328.83/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Atomics.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/NetworkConnections.java
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/**
 * Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
 * version.
 */

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  jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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  jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/AbstractIterator.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/Function.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/Objects.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/io/MultiInputStream.java
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  jar/com/google/common/primitives/ImmutableIntArray.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/MacHashFunction.java
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  jar/com/google/common/collection/JdkBackedImmutableSet.java
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  jar/com/google/common/hash/ImmutableSupplier.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/AbstractScheduledService.java
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  jar/com/google/common/util/concurrent/UncheckedExecutionException.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>
* <p>TODO(kevinb): support concurrently modified collections?
* </p>
* @param c the collection for which to return an array of elements
*/

Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ObjectArrays.java
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
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Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/SmallCharMatcher.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/TimeoutFuture.java
jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

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jar/com/google/common/collect/JdkBackedImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/IndexedImmutableSet.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredEntrySetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashSet.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
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  jar/com/google/common/collect/ImmutableMapEntry.java
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  jar/com/google/common/collect/MultimapBuilder.java
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  jar/com/google/common/collect/MultimapBuilder.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableBiMap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableCollection.java
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 */

/**
 * Holder for web specializations of methods of [code Shorts]. Intended to be empty for regular
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 */

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/LongAddable.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Element.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/graph/Traverser.java
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  jar/com/google/common/util/concurrent/ClosingFuture.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.
*
* 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/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Partially.java
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* /opt/cola/permits/1119092615_1608716259.54/jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1119092615_1608716259.54/jar/com/google/common/cache/Striped64.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/ListenableViewTask.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/escape/UnicodeEscaper.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Longs.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/TrieParser.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SortedMapDifference.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/html/HtmlEscapers.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/RegularImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSource.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>
 */
*/

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java
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 */
/**
 * Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
 * version.
 */

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableAsList.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TableCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableSortedSet.java
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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
```

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
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jar/io/netty/resolver/dns/DnsQueryContext.java
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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/META-INF/maven/io.netty/netty-resolver-dns/pom.xml

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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DirContextUtils.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/Cache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java

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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-
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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/UnixResolverOptions.java

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* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/DatagramDnsQueryContext.java
* /opt/cola/permits/1258617807_1643096348.73/0/netty-resolver-dns-4-1-71-final-sources-jar/io/netty/resolver/dns/TcpDnsQueryContext.java

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1.180 apache-log4j 1.2.17

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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
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* /opt/cola/permits/1110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
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* /opt/cola/permits/110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java
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* /opt/cola/permits/110923499_1606873622.06/0/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
1.182 flume-ng-configuration 1.9.0-cdh6.3.0

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* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/metrics/MetricsTracker.java
* /opt/cola/permits/1272432900_1645007173.16/0/hikaricp-2-6-1-sources-jar/com/zaxxer/hikari/HikariJNDIFactory.java

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1.195 enunciate-javac-support 2.7.0

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1.206 jersey-container-servlet-core 2.34

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1.207 netty-transport-classes-epoll

4.1.71.Final

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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.
 */

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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 <a href="https://linux.die.net//man/7/tcp">TCP QUICKACK</a>
 * for more details.
 */

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* javax.websocket:javax.websocket-api

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org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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 *
 * Abstract: The main routine
 *
 --*/

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For hadoop-common-project/hadoop-common/src/main/native/gtest

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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  broccoli-asset-rev v2.4.2
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  * org.eclipse.jetty.orbit:javax.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

------

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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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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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

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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1136206716_1613708914.54/0/opencsv-2-3-sources-3-
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wsat.xsd Version: 2004/10 (n/a)

* License: Oasis Style
* Source: http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd

wscoor.xsd (1.0)

* License: OASIS Style

wscoor.xsd (1.1)

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* Project: http://docs.oasis-open.org/ws-tx/wscoor/2006/06
* Source: http://docs.oasis-open.org/ws-tx/wscoor/2006/06/wstx-wscoor-1.1-schema-200701.xsd

wsrm Version: 2005/02 (n/a)

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* Project: http://schemas.xmlsoap.org/ws/2005/02/rm/

wsrm.xsd (1.2)

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wstx-wsat.xsd (1.1)

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xmlsec (1.5.8)

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* Project: http://santuario.apache.org/
* Source:
  https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar

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1.215 hk2 2.6.1

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* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

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1.220 jersey-media-jaxb 2.27

1.221 zstd 1.3.8
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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

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* java.sun.security.ssl

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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
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-el-api

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

org.eclipse.jetty.toolchain:jetty-schemas

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Zokttk0bThfwa45TtxQbScw=
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iD8DBQFFoniQ3VhlFus9dGQRAmJmAjL5y1loohnhVQIICsparvjHMQuwqwCgiZFy
LBDVaa1BIJ1v1EHY901kPeG=  

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iQEcBAEBAgAGBQJQBBb4tAAoJEMHhjBmtgF91HDCeH/2nQDPuPztWFrBifnEolLF6Jl
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Mailing Address: 4676 Admiralty Way, Suite 520
          Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail: gordon.king@simulalabs.com
Fax: +1 800 822 0471

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer
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<th>Name</th>
<th>Date added</th>
</tr>
</thead>
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<td>12 September 2006</td>
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Mailing Address: 2215 SE 39th Ave, Portland OR 97214 USA

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Full name: Gregory John Wilkins
E-Mail: gregw@eclipse.com
Mailing Address: 62 Church St. Balmain, NSW 2041, Australia

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1.231 jaxb2-basics-runtime 1.11.1

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Changed the URL of the Artifacts.
1.233 jetty-security 9.3.25.v20180904

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* /opt/cola/permits/1272432908_1645007167.26/0/jetty-security-9-3-25-v20180904-sources.jar/org/eclipse/jetty/security/DefaultIdentityService.java
1.234 hadoop-annotations 3.2.2

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    * Abstract: The main routine
    *
    */

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For hadoop-common-project/hadoop-common/src/main/native/gtest

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1.236 netty-buffer 4.1.71.Final

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jar/io/netty/buffer/WrappedCompositeByteBuf.java
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jar/io/netty/buffer/ByteBufAllocatorMetric.java
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jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
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jar/io/netty/buffer/PoolChunkList.java
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jar/io/netty/buffer/PooledByteBuf.java
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jar/io/netty/buffer/PoolSubpage.java
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jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
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* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/message/SimpleTextMessage.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/fragment/FragmentExtension.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/message/package-info.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/compress/package-info.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/frames/ContinuationFrame.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/frames/ReadOnlyDelegatedFrame.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/io/FutureWriteCallback.java
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* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/compress/CompressExtension.java
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* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/annotated/OptionalSessionCallableMethod.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/payload/package-info.java
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* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/annotated/EventMethods.java
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* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/io/FramePipes.java
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* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/JettyListenerImpl.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/frames/BinaryFrame.java
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* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/compress/DeflateFrameExtension.java
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* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/frames/BinaryFrame.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/frames/PingFrame.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/EventDriverImpl.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/BlockingWriteCallback.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/AbstractExtension.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/WebSocketSessionFactory.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/messages/MessageOutputStream.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/compress/ByteAccumulator.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/extensions/FrameCaptureExtension.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/frames/ControlFrame.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/common/filters/PongFrame.java
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* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/EventDriverFactory.java
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* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/LogicalConnection.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/LogicalConnection.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/JettyAnnotatedEventDriver.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/events/JettyListenerEventDriver.java
* /opt/cola/permits/1272432691_1645007168.55/0/websocket-common-9.3.25-v20180904-sources-jar/org/eclipse/jetty/websocket/common/io/FrameFlusher.java
1.242 metrics-jvm 3.1.0

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1.243 jetty-servlet 9.3.20.v20170531

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* /opt/cola/permits/1272441397_1645007200.01/0/jetty-servlet-9-3-20-v20170531-sources-jar/org/eclipse/jetty/servlet/NoJspServlet.java
* /opt/cola/permits/1272441397_1645007200.01/0/jetty-servlet-9-3-20-v20170531-sources-jar/org/eclipse/jetty/servlet/ServletMapping.java
* /opt/cola/permits/1272441397_1645007200.01/0/jetty-servlet-9-3-20-v20170531-sources-jar/org/eclipse/jetty/servlet/package-info.java
* /opt/cola/permits/1272441397_1645007200.01/0/jetty-servlet-9-3-20-v20170531-sources-jar/org/eclipse/jetty/servlet/ServletHolder.java
* /opt/cola/permits/1272441397_1645007200.01/0/jetty-servlet-9-3-20-v20170531-sources-jar/org/eclipse/jetty/servlet/jmx/package-info.java
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* /opt/cola/permits/1272441397_1645007200.01/0/jetty-servlet-9-3-20-v20170531-sources-jar/org/eclipse/jetty/servlet/Handler.java
* /opt/cola/permits/1272441397_1645007200.01/0/jetty-servlet-9-3-20-v20170531-sources-jar/org/eclipse/jetty/servlet/BaseHolder.java
* /opt/cola/permits/1272441397_1645007200.01/0/jetty-servlet-9-3-20-v20170531-sources-jar/org/eclipse/jetty/servlet/jmx/HolderMBean.java
* /opt/cola/permits/1272441397_1645007200.01/0/jetty-servlet-9-3-20-v20170531-sources-jar/org/eclipse/jetty/servlet/StatisticsServlet.java
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1.244 slf4j-log4j 1.7.21

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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard java.lang.Appendable and provides methods to append UTF-8 encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to @link Appendable#append(byte) may be needed before state a character is appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 *
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  * /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
    jar/org/eclipse/jetty/util/Atomics.java
  * /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
    jar/org/eclipse/jetty/util/Jetty.java
  * /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
    jar/org/eclipse/jetty/util/component/Container.java
  * /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
    jar/org/eclipse/jetty/util/ByteArrayOutputStream2.java
  * /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
    jar/org/eclipse/jetty/util/security/CertificateValidator.java
  * /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
    jar/org/eclipse/jetty/util/thread/ScheduledExecutorScheduler.java
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    jar/org/eclipse/jetty/util/CompletableCallback.java
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    jar/org/eclipse/jetty/util/preventers/DriverManagerLeakPreventer.java
  * /opt/cola/permits/1272432873_1645007174.5/0/jetty-util-9-3-25-v20180904-sources-
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* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/server/WebSocketUpgradeFilter.java
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* /opt/cola/permits/1272432694_1645007170.26/0/websocket-server-9-3-25-v20180904-sources-jar/org/eclipse/jetty/websocket/server/WebSocketServerFactory.java
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* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-
jar/io/netty/internal/tcnative/AsyncSSLPrivateKeyMethod.java
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* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/Library.java
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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/FormatString.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CompatibleWith.java

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* /opt/cola/permits/117793649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/NoAllocation.java
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* /opt/cola/permits/117793649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/117793649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/117793649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/ForOverride.java
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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CompileTimeConstant.java
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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
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1.274 json 1.8

1.275 log4j-slf4j-impl 2.8.2

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* /opt/cola/permits/1000738091_1646171488.90/gson-2-8-5-sources-jar/com/google/gson/JsonParser.java
* /opt/cola/permits/1000738091_1646171488.90/gson-2-8-5-sources-jar/com/google/gson/FieldAttributes.java
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1.288 log4j-api 2.10.0

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1.289 hadoop-yarn-client 3.0.0-cdh6.3.0

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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For:

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js.gz

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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java

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* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/util/PropertyElf.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/pool/ProxyStatement.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/util/UtilityElf.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/util/PropertyElf.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/pool/ProxyStatement.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
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  jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/pool/PooEntry.java
* /opt/cola/permits/1260643490_1643189093.83/0/hikaricp-java7-2-4-12-sources-
  jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleHealthChecker.java
1.297 j2objc-annotations 1.3
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* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/RetainedLocalRef.java
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* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
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1.298 hpc 0.7.2

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1.299 stax 4.2.1

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1.301 jersey-json 1.19

1.302 batik-util 1.10

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
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org.eclipse.jetty.toolchain:jetty-schemas

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

org.eclipse.jetty.toolchain:jetty-schemas

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/opt/cola/permits/1150909240_1617718312.14/0/paranamer-2.8-sources-5-jar/com/thoughtworks/paranamer/BytecodeReadingParanamer.java
No license file was found, but licenses were detected in source scan.

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  jar/com/thoughtworks/paranamer/DefaultParanamer.java
* /opt/cola/permits/1150909240_1617718312.14/0/paranamer-2-8-sources-5-
  jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java
* /opt/cola/permits/1150909240_1617718312.14/0/paranamer-2-8-sources-5-
  jar/com/thoughtworks/paranamer/AdaptiveParanamer.java
* /opt/cola/permits/1150909240_1617718312.14/0/paranamer-2-8-sources-5-
  jar/com/thoughtworks/paranamer/CachingParanamer.java
* /opt/cola/permits/1150909240_1617718312.14/0/paranamer-2-8-sources-5-
  jar/com/thoughtworks/paranamer/NullParanamer.java

1.318 jersey-client 1.19

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1.320 nimbus-jose-jwt 7.9

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1.321 jna 4.2.2

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1.327 jctools-core 3.1.0

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1.328 jasper-compiler 5.5.23

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  * /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ImplicitTagLibraryInfo.java
  * /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/TagLibraryInfoImpl.java
  * /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/SmapStratum.java
  * /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ParserController.java
  * /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/ErrorDispatcher.java
  * /opt/cola/permits/1003295355_1615417986.05/0/compiler-zip/compiler/Mark.java

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 * Read an object graph in JSON format and make it available in Java objects, or
 * in a "Map of Maps." (untyped representation). This code handles cyclic references
 * and can deserialize any Object graph without requiring a class to be 'Serializable'
 * or have any specific methods on it. It will handle classes with non public constructors.
 * <br/>
 * Usages:
 * <ul>
 * <li>Call the static method: {@code JsonReader.objectToJava(String json)}. This will
 * return a typed Java object graph.</li>
 * <li>Call the static method: {@code JsonReader.jsonToMaps(String json)}. This will
 * return an untyped object representation of the JSON String as a Map of Maps, where
 * the fields are the Map keys, and the field values are the associated Map's values. You can
 * call the JsonWriter.objectToJava() method with the returned Map, and it will serialize
 * the Graph into the identical JSON stream from which it was read,
 * <li>Instantiate the JsonReader with an InputStream: {@code JsonReader(InputStream in)} and then call
 * [ @code readObject() ]. Cast the return value of readObject() to the Java class that was the root of
 * the graph.
 * <li>
 * <li>
 */
* Instantiate the JsonReader with an InputStream: [@code JsonReader(InputStream in, true)] and then call
* [@code readObject()]. The return value will be a Map of Maps.
* </li></ul><br/>
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* /opt/cola/permits/1120497754_1609978047.3/0/json-io-2-5-1-sources-1-
jar/com/cedarsoftware/util/io/JsonReader.java
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/**
* Output a Java object graph in JSON format. This code handles cyclic
* references and can serialize any Object graph without requiring a class
* to be 'Serializable' or have any specific methods on it.
* <br/>
* Call the static method: [@code JsonWriter.toJson(employee)]. This will
* convert the passed in 'employee' instance into a JSON String.</li>
* <li>Using streams:
* <pre>
* JsonWriter writer = new JsonWriter(stream);
* writer.write(employee);
* writer.close();
* </pre>
* This will write the 'employee' object to the passed in OutputStream.
* </li>
* <p>That's it. This can be used as a debugging tool. Output an object
* graph using the above code. You can copy that JSON output into this site
* which formats it with a lot of whitespace to make it human readable:
* http://jsonformatter.curiousconcept.com
* </p>
* <p>This will output any object graph deeply (or null). Object references are
* properly handled. For example, if you had A->B, B->C, and C->A, then
* A will be serialized with a B object in it, B will be serialized with a C
* object in it, and then C will be serialized with a reference to A (ref), not a
* redefinition of A.</p>  
*  
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* /opt/cola/permits/1120497754_1609978047.3/0/json-io-2-5-1-sources-1-  
  jar/com/cedarsoftware/util/io/JsonWriter.java  
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/**  
* This class holds a JSON object in a LinkedHashMap.  
* LinkedHashMap used to keep fields in same order as they are  
* when reflecting them in Java. Instances of this class hold a  
* Map-of-Map representation of a Java object, read from the JSON  
* input stream.  
*  
* @param <K> field name in Map-of-Map  
* @param <V> Value  
*  
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* /opt/cola/permits/1120497754_1609978047.3/0/json-io-2-5-1-sources-1-
  jar/com/cedarsoftware/util/io/JsonObject.java

1.331 byte-buddy-agent 1.9.10

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* /opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-
  jar/net/bytebuddy/agent/Installer.java
* /opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-
  jar/net/bytebuddy/agent/VirtualMachine.java
* /opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-
  jar/net/bytebuddy/agent/package-info.java
* /opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-
  jar/net/bytebuddy/agent/Attacher.java
* /opt/cola/permits/1145288430_1616148381.91/0/byte-buddy-agent-1-9-10-sources-2-
  jar/net/bytebuddy/agent/ByteBuddyAgent.java

1.332 byte-buddy 1.9.10
**1.333 json-smart 2.3**

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* `/opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/writer/DefaultMapper.java`

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Found in path(s):

* `/opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/JSONStyle.java`
* `/opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-`
1.334 arrow-memory 0.8.0

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1.335 apache-jsp 9.3.25.v20180904

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1.336 jaxb-core 2.2.4

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1.360 netty-codec 4.1.71.Final

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A decoder that splits the received ByteBufs 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.

{@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 12 (0x0C) 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.

```
<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" |
+--------+----------------+      +--------+----------------+
```

<h3>2 bytes length field at offset 0, strip header</h3>

Because we can get the length of the content by calling [ByteBuf#readableBytes()](https://www.apache.org/licenses/LICENSE-2.0), you might want to strip the length field by specifying initialBytesToStrip. In this example, we specified initialBytesToStrip, that is same with the length of the length field, to strip the first two bytes.

```
<lengthFieldOffset> = 0
<lengthFieldLength> = 2
lengthAdjustment = 0
initialBytesToStrip = 2
```
* 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)
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.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
lengthAdjustment = 2 (= the length of Header 1)
initialBytesToStrip = 0
```

**BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)**

```
+----------+----------+----------------+
|  Length  | Header 1 | Actual Content |
+----------+----------+----------------+
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+
```

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`.

```plaintext
lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
lengthAdjustment = 1 (= the length of HDR2)
initialBytesToStrip = 3 (= the length of HDR1 + LEN)
```

**BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)**

```
+------|--------|------|----------------+
| HDR1 | Length | HDR2 | Actual Content |
+------|--------|------|----------------+
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |
+------|--------|------|----------------+
```
* 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 \texttt{lengthAdjustment}.
  * 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.

\begin{verbatim}
* 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" |
* +----------------+--------+----------------+      +----------------+--------+----------------+
\end{verbatim}

@see LengthFieldPrepender
*/

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  jar/io/netty/handler/codec/compression/Crc32c.java
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  jar/io/netty/handler/codec/ProtocolDetectionResult.java
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  jar/io/netty/handler/codec/UnsupportedValueConverter.java
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  jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
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  jar/io/netty/handler/codec/HeadersUtils.java
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  jar/io/netty/handler/codec/protobuf/protobufEncoderNano.java
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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
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 * /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-
 * jar/io/netty/handler/codec/base64/Base64Dialect.java

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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Lz4XXHash32.java
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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/LineEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/LineSeparator.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
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* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1258617623_1643096352.03/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
donnotjar/ko/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-
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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
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   * /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java

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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.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.
*/
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* /opt/cola/permits/1258617684_1643096346.51/0/netty-transport-classes-epoll-4-1-71-final-sources.jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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 * 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 `<a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>` for more details.
* /

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### 1.365 jetty-http 9.4.20.v20190813

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Eclipse

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* 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

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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

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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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Found in path(s):
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/http/HttpSessionContext.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletContextAttributeListener.java
* /opt/cola/permits/1135953059_1613641062.42/0/servlet-api-2-4-sources-1-jar/javax/servlet/ServletRequestListener.java
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Written by:       Philip Hazel
Email local part: ph10
Email domain:     cam.ac.uk

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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2.1.1  2.1+2.0.1  2001   PSF   yes
2.1.2   2.1.1   2002   PSF   yes
2.1.3   2.1.2   2002   PSF   yes
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1.372 ezmorph 1.0.6

1.373 spring-web 5.2.5.RELEASE

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/ServletServerHttpServletRequest.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/DefaultUriBuilderFactory.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/MultipartBodyBuilder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/codec/xml/XmlEventDecoder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/RequestMapping.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/cors/DefaultCorsProcessor.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/util/pattern/InternalPathPatternParser.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/context/support/ServletContextScope.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/multipart/commons/CommonsMultipartFile.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1.jar/org/springframework/web/client/HttpServerErrorException.java

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  jar/org/springframework/web/bind/annotation/Mapping.java
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  jar/org/springframework/web/filter/ServletContextRequestLoggingFilter.java
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#
# 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
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# content languages and encodings, so choose them carefully.
#
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#
# This file was retrieved from
# 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-endpointproparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/applixware
# application/atf
# application/atfx
application/atom+xml
application/atomcat+xml
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+xml
# application/batch-smtp
# application/beep+xml
# application/calendar+xml
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml
# application/cdf+xml
application/cdmi-capability
application/cdmi-container
application/cdmi-domain
application/cdmi-object
application/cdmi-queue
# application/eshop
# application/example
application/exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
# application/fits
# application/font-sfnt
application/font-tdpfr
application/font-woff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml
application/gpx+xml
application/gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudio
# 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
# application/iotp
application/ipfix
# application/ipp
# application/isup
# application/fits+xml
application/java-archive
application/java-serialized-object
application/java-vm
application/javascript
# application/jose
# application/jose+json
# application/jrd+json
application/json
# application/json-ld
# application/json-patch+json
# application/json-seq
application/jsonml+json
# application/json+json
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
# application/lg+xml
# 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/marcxml
application/marcxml+xml marcxml
application/mathematica nb mb
application/mathml+xml mathml
# application/mathml-content+xml
# application/mathml-presentation+xml
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# application/mbms-deregister+xml
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# application/media_control+xml
application/mediaservercontrol+xml metscml
# application/merge-patch+json
application/metalink+xml metalink
application/metalink4+xml meta4
application/mets+xml mets
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# application/mikey
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# application/moss-keys
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# application/mosskey-data
# application/mosskey-request
application/mp21m21 mp21
application/mp4mp4s
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# 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 dot
application/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
# application/odx
application/oebps-package+xmllopf
application/oggogx
application/omdoc+xmlmlomdoc
application/onenoteonetoc onetoc2 onetmp onepkg
application/oxps
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xmlxer
application/pdf
# application/pdx
application/pgp-encryptedpdp
# application/pgp-keys
application/pgp-signatureasc sig
application/pics-rulesprf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10p10
# application/pkcs12
application/pkcs7-mimep7mp7c
application/pkcs7-signaturep7sp7s
application/pkcs8p8
application/pkix-attpkix-attr-certac
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application/pls+xmlplxs
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application/set-registration
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application/tei+xml
application/thraud+xml
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application/timestamp-reply
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application/ttml+xml
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application/vnd.wap.wmclxml
application/vnd.wap.wmlc
application/vnd.wap.wmlsc
application/vnd.webturbowtb
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# application/vnd.wfa.wsc
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/**
**
* 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/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/remoting/caucho/HessianExporter.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/httpComponents/chunked/HttpMessageEncoder.java
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jar/org/springframework/web/util/JavaScriptUtils.java
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jar/org/springframework/http/server/reactive/ContextPathCompositeHandler.java
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jar/org/springframework/http/codec/json/Jackson2JsonEncoder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-

jar/org/springframework/web/client/AsyncRestTemplate.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/reactive/ReactorClientHttpConnector.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/InterceptingAsyncClientHttpRequestFactory.java
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1.376 kerb-admin 1.1.0

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1.387 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.
 */

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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.
 */

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  jar/org/objectweb/asm/commons/Method.java
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  jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
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  jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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  jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
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  jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
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  jar/org/objectweb/asm/commons/TableSwitchGenerator.java
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  jar/org/objectweb/asm/commons/FieldRemapper.java
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/**
 * Constructs a new { @link SerialVersionUIDAdder}. <i>Subclasses must not use this

* constructor instead, they must use the `SerialVersionUIDAdder(int, ClassVisitor)`
* version.

* @param classVisitor a `ClassVisitor` to which this visitor will delegate calls.
* @throws IllegalStateException If a subclass calls this constructor.

Found in path(s):
* /opt/cola/permits/1135892456_1613626901.70/asm-commons-7-1-sources-2-
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For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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* 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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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/jaxp/XPathExpressionImpl.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/runtime/ErrorMessages_es.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnparsedEntityUriCall.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ErrorMessages_it.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/SuballocatedByteVector.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeType.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/SecuritySupport.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MultipleNodeCounter.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LocationPathPattern.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MatchGenerator.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ja_JP_HI.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/KeyRefIterator.java
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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncTranslate.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionVisitor.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ko.java
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Include.java

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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/XPathLexer.java

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 */
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */
 public class XSLProcessorVersion
 {

 /**
 * Print the processor version to the command line.
 * *
 * @param argv command line arguments, unused.
 */
 public static void main(String argv[])
 {
     System.out.println(S_VERSION);
 }

 /**
 * Constant name of product.
 */
 public static final String PRODUCT = "Xalan";

 /**
 * Implementation Language.
 */
 public static final String LANGUAGE = "Java";

 /**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
 public static final int VERSION = @version.VERSION@;
/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B> v.r[.dd| <B>D</B>nn]"</CODE>.
 * Semantics of the version string are identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? "D"+DEVELOPMENT)
: (""+MAINTENANCE));

}  

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#/  
#
*/
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
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*/

// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrgrlavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
*/
* @author G. Todd Miller
*/

package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {:
    /**
     * Used by function calls with no args.
     */
    static public final Vector EmptyArgs = new Vector(0);

    /**
     * Reference to non-existing variable.
     */
    static public final VariableRef DummyVarRef = null;

    /**
     * Reference to the Parser class.
     */
    private Parser _parser;
    private XSLTC _xsltc;

    /**
     * String representation of the expression being parsed.
     */
    private String _expression;

    /**
     * Line number where this expression/pattern was declared.
     */
    private int _lineNumber = 0;

    /**
     * Reference to the symbol table.
     */
    public SymbolTable _symbolTable;
public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "*[uri]:*" and "*[uri]:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "*[namespace-uri() = 'uri']". respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */

public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) { // "*"
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

        // Add the rest of the code here...
    }

    // Add the rest of the code here...
}
return new StepPattern(axis, nodeType, predicates);
}
else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();
    return new StepPattern(axis, nodeType, predicates);
}
else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
        nodeType = (name.toString().equals("*")) ? -1
            : _xsltc.registerNamespacePrefix(name);
    } else {
        final String uri = name.getNamespace();
        final String local = name.getLocalPart();
        final QName namespace_uri =
            _parser.getQNameIgnoreDefaultNs("namespace-uri");

        // Expand {uri}:* to *[namespace-uri] = 'uri' - same for @*
        if (uri != null && (local.equals("*") || local.equals("@*"))) {
            if (predicates == null) {
                predicates = new Vector(2);
            }
            // Priority is set by hand if no other predicates exist
            setPriority = (predicates.size() == 0);

            predicates.add(
                new Predicate(
                    new EqualityExpr(Operators.EQ,
                        new NamespaceUriCall(namespace_uri),
                        new LiteralExpr(uri)));
        }

        if (local.equals("*")) {
            nodeType = (axis == AxisATTRIBUTE) ? NodeTest.ATTRIBUTE
                : NodeTest.ELEMENT;
        } else if (local.equals("@*")) {
            nodeType = NodeTest.ATTRIBUTE;
        } else {
            nodeType = (axis == AxisATTRIBUTE) ? _xsltc.registerAttribute(name)
                : _xsltc.registerElement(name);
        }
    }
}
final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
    result.setPriority(-0.25);
}

return result;

public int findNodeType(int axis, Object test) {
if (test == null) {  // *
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
        (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
}
else if (test instanceof Integer) {
    return ((Integer)test).intValue();
}
else {
    QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
        return (name.toString().equals("*")) ? -1 :
            _xslt.registerNamespacePrefix(name);
    }

    if (name.getNamespace() == null) {
        final String local = name.getLocalPart();

        if (local.equals("*")) {
            return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                NodeTest.ELEMENT;
        }
        else if (local.equals("@*")) {
            return NodeTest.ATTRIBUTE;
        }
    }

    return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) :
        _xslt.registerElement(name);
}

/**
* Parse the expression passed to the current scanner. If this
* expression contains references to local variables and it will be
* compiled in an external module (not in the main class) request
* the current template to create a new variable stack frame.
*
* @param lineNumber Line where the current expression is defined.
* @param external Set to <tt>true</tt> if this expression is
* compiled in a separate module.
*
*/

public Symbol parse(String expression, int lineNumber) throws Exception {
  try {
    _expression = expression;
    _lineNumber = lineNumber;
    return super.parse();
  }
  catch (IllegalCharException e) {
    ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                lineNumber, e.getMessage());
    _parser.reportError(Constants.FATAL, err);
  }
  return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */

final SyntaxTreeNode lookupName(QName name) {
  // Is it a local var or param ?
  final SyntaxTreeNode result = _parser.lookupVariable(name);
  if (result != null)
    return(result);
  else
    return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
  _parser.reportError( Constants.ERROR, error);
}

public void report_error(String message, Object info) {
  final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
                                    _expression);
  _parser.reportError( Constants.FATAL, err);
}
public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
}
}

/**
* Returns true if the axis applies to elements only. The axes
* child, attribute, namespace, descendant result in non-empty
* nodesets only if the context node is of type element.
* /
public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

};

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSBILING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSBILING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
    { : RESULT = pattern; : } 
    | EXPRESSION Expr:expr
    { : RESULT = expr; : };

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
    { : RESULT = lpp; : }

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LocationPathPattern ::= SLASH
{: RESULT = new AbsolutePathPattern(null); :}

| LocationPathPattern:lpp VBAR Pattern:p
{: RESULT = new AlternativePattern(lpp, p); :};

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp; :}

| StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(sp, rpp); :}

| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, null);:

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
{: RESULT = new IdPattern(l);
    parser.setHasIdCall(true);
:}

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :};

IdKeyPattern ::= SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(lpp, rpp); :}

IdKeyPattern ::= IdKeyPattern:ikp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(ikp, rpp); :}

IdKeyPattern ::= IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(ikp, rpp); :}

IdKeyPattern ::= IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(rpp); :}

IdKeyPattern ::= IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
{: RESULT = rpp; :};
RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);

RESULT = pip;

RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);

RESULT = parser.createStepPattern(axis.intValue(), nt, null);

RESULT = pip; // TODO: report error if axis is attribute

RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);

RESULT = nt;

RESULT = new Integer(NodeTest.ANODE);

RESULT = new Integer(NodeTest.TEXT);

RESULT = new Integer(NodeTest.COMMENT);
| PI
{: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
{: RESULT = null; :}

| QName:qn
{: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD DCOLON
{: RESULT = new Integer(Axis.CHILD); :}

| ATTRIBUTE DCOLON
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
{: Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
:}

| Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e); :
};

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};

OrExpr ::= AndExpr:ae
{: RESULT = ae; :}

| OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
{: RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee
EqualityExpr ::= RelationalExpr:re
  { : RESULT = re; : }

  | EqualityExpr:ee EQ RelationalExpr:re
  { : RESULT = new EqualityExpr(Operators.EQ, ee, re); : }

  | EqualityExpr:ee NE RelationalExpr:re
  { : RESULT = new EqualityExpr(Operators.NE, ee, re); : }

RelationalExpr ::= AdditiveExpr:ae
  { : RESULT = ae; : }

  | RelationalExpr:re LT AdditiveExpr:ae
  { : RESULT = new RelationalExpr(Operators.LT, re, ae); : }

  | RelationalExpr:re GT AdditiveExpr:ae
  { : RESULT = new RelationalExpr(Operators.GT, re, ae); : }

  | RelationalExpr:re LE AdditiveExpr:ae
  { : RESULT = new RelationalExpr(Operators.LE, re, ae); : }

  | RelationalExpr:re GE AdditiveExpr:ae
  { : RESULT = new RelationalExpr(Operators.GE, re, ae); : }

AdditiveExpr ::= MultiplicativeExpr:me
  { : RESULT = me; : }

  | AdditiveExpr:ae PLUS  MultiplicativeExpr:me
  { : RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); : }

  | AdditiveExpr:ae MINUS MultiplicativeExpr:me
  { : RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); : }

MultiplicativeExpr ::= UnaryExpr:ue
  { : RESULT = ue; : }

  | MultiplicativeExpr:me MULT UnaryExpr:ue
  { : RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); : }

  | MultiplicativeExpr:me DIV UnaryExpr:ue
  { : RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); : }

  | MultiplicativeExpr:me MOD UnaryExpr:ue
  { : RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); : }

UnaryExpr ::= UnionExpr:ue
MINUS UnaryExpr::ue
{ : RESULT = new UnaryOpExpr(ue); : }

UnionExpr ::= PathExpr::pe
{ : RESULT = pe; : }

PathExpr::pe VBAR UnionExpr::rest
{ : RESULT = new UnionPathExpr(pe, rest); : }

PathExpr ::= LocationPath::lp
{ : RESULT = lp; : }

FilterExpr::fexp
{ : RESULT = fexp; : }

FilterExpr::fexp SLASH RelativeLocationPath::rlp
{ : RESULT = new FilterParentPath(fexp, rlp); : }

FilterExpr::fexp DSLASH RelativeLocationPath::rlp
{:
  // Expand '//' into '/descendant-or-self::node()/' or
  // into /descendant-or-self::*/
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  FilterParentPath fpp = new FilterParentPath(fexp, step);
  fpp = new FilterParentPath(fpp, rlp);
  if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
  }
  RESULT = fpp;
:}

LocationPath ::= RelativeLocationPath::rlp
{ : RESULT = rlp; : }

AbsoluteLocationPath::alp
{ : RESULT = alp; : }

RelativeLocationPath ::= Step::step
| RelativeLocationPath:rlp SLASH Step:step |
| : |
| if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) { |
|     RESULT = step;       // Remove './' from the middle |
| } |
| else if (((Step) step).isAbbreviatedDot()) { |
|     RESULT = rlp;        // Remove '/.' from the end |
| } |
| else { |
|     RESULT = |
|     new ParentLocationPath((RelativeLocationPath) rlp, step); |
| } |
| : |

| AbbreviatedRelativeLocationPath:arlp |
| : RESULT = arlp; : |

AbsoluteLocationPath ::= SLASH |
| : RESULT = new AbsoluteLocationPath(); : |

| SLASH RelativeLocationPath:rlp |
| : RESULT = new AbsoluteLocationPath(rlp); : |

| AbbreviatedAbsoluteLocationPath:aalp |
| : RESULT = aalp; : |

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step |
| : |
| final Step right = (Step)step; |
| final int axis = right.getAxis(); |
| final int type = right.getNodeType(); |
| final Vector predicates = right.getPredicates(); |
| if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) { |
|     // Compress '/child:E' into 'descendant::E' - if possible |
|     if (predicates == null) { |
|         right.setAxis(Axis.DESCENDANT); |
|         if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) { |
|             RESULT = right; |
|         } |
|     } |
|     else { |
|         // Expand 'rlp/child::E' into 'rlp/descendant::E' |
|         RelativeLocationPath left = (RelativeLocationPath)rlp; |
|         RESULT = new ParentLocationPath(left, right); |
|     } |
| } |
else {
    // Expand '//step' -> 'descendant-or-self::*/step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        Step left = new Step(Axis.DESCENDANTORSELF,
               DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
    } else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF,
               DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
}
}

else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
               DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
} else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
               DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
;

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp

    ;
    // Expand '//' into '/descendant-or-self::node()/ or
    // into /descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis()))
    {
        nodeType = DTM.ELEMENT_NODE;
    }
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
}

Step ::= NodeTest:ntest
{|:
    if (ntest instanceof Step) {
        RESULT = (Step)ntest;
    }
    else {
        RESULT = new Step(Axis.CHILD,
            parser.findNodeType(Axis.CHILD, ntest),
            null);
    }
    :}

| NodeTest:ntest Predicates:pp
{|:
    if (ntest instanceof Step) {
        Step step = (Step)ntest;
        step.addPredicates(pp);
        RESULT = (Step)ntest;
    }
    else {
        RESULT = new Step(Axis.CHILD,
            parser.findNodeType(Axis.CHILD, ntest), pp);
    }
    :}

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
{|: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest), pp);
    :}

| AxisSpecifier:axis NodeTest:ntest
{|: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest), null);
    :}

| AbbreviatedStep:abbrev
{|: RESULT = abbrev; :}

AxisSpecifier ::= AxisName:an DCOLON
{|: RESULT = an; :}
| ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR
{: RESULT = new Integer(Axis.ANCESTOR); :

| ANCESTORORSELF
{: RESULT = new Integer(Axis.ANCESTORORSELF); :

| ATTRIBUTE
{: RESULT = new Integer(Axis.ATTRIBUTE); :

| CHILD
{: RESULT = new Integer(Axis.CHILD); :

| DESCENDANT
{: RESULT = new Integer(Axis.DESCEDANT); :

| DESCENDANTORSELF
{: RESULT = new Integer(Axis.DESCEDANTORSELF); :

| FOLLOWING
{: RESULT = new Integer(Axis.FOLLOWING); :

| FOLLOWINGSIBLING
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :

| NAMESPACE
{: RESULT = new Integer(Axis.NAMESPACE); :

| PARENT
{: RESULT = new Integer(Axis.PARENT); :

| PRECEDING
{: RESULT = new Integer(Axis.PRECEDING); :

| PRECEDINGSIBLING
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); :

| SELF
{: RESULT = new Integer(Axis.SELF); :

AbbreviatedStep ::= DOT
{: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :

| DDOT
{: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};
FilterExpr ::= PrimaryExpr:primary
   { : RESULT = primary; : }

   | PrimaryExpr:primary Predicates:pp
     { : RESULT = new FilterExpr(primary, pp); : ; }

PrimaryExpr ::= VariableReference:vr
   { : RESULT = vr; : }

   | LPAREN Expr:ex RPAREN
     { : RESULT = ex; : }

   | Literal:string
     {
       /*
       * If the string appears to have the syntax of a QName, store
       * namespace info in the literal expression. This is used for
       * element-available and function-available functions, among
       * others. Also, the default namespace must be ignored.
       */
       String namespace = null;
       final int index = string.lastIndexOf(‘:’);

       if (index > 0) {
           final String prefix = string.substring(0, index);
           namespace = parser._symbolTable.lookupNamespace(prefix);
       }
       RESULT = (namespace == null) ? new LiteralExpr(string)
       : new LiteralExpr(string, namespace);
     }

   | INT:num
     {
       long value = num.longValue();
       if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
           RESULT = new RealExpr(value);
       } else {
           if (num.doubleValue() == -0)
               RESULT = new RealExpr(num.doubleValue());
           else if (num.intValue() == 0)
               RESULT = new IntExpr(num.intValue());
           else if (num.doubleValue() == 0.0)
               RESULT = new RealExpr(num.doubleValue());
           else
               RESULT = new IntExpr(num.intValue());
       }
     }
| REAL: num
| :: RESULT = new RealExpr(num.doubleValue()); |

| FunctionCall: fc
| :: RESULT = fc; |

VariableReference ::= DOLLAR VariableName: varName

{|:
  // An empty qname prefix for a variable or parameter reference
  // should map to the null namespace and not the default URI.
  SyntaxTreeNode node = parser.lookupName(varName);

  if (node != null) {
    if (node instanceof Variable) {
      RESULT = new VariableRef((Variable)node);
    }
    else if (node instanceof Param) {
      RESULT = new ParameterRef((Param)node);
    }
    else {
      RESULT = new UnresolvedRef(varName);
    }
  }

  if (node == null) {
    RESULT = new UnresolvedRef(varName);
  }
|:

FunctionCall ::= FunctionName: fname LPAREN RPAREN

{|:
  if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
  }
  else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
  }
  else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
  }
  else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
  }
  else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
  }
|:
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
| : |
| if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) |
|     RESULT = new ConcatCall(fname, argl); |
| } |
| else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) |
|     RESULT = new NumberCall(fname, argl); |
| } |
| else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) |
|     parser.setMultiDocument(true);
|     RESULT = new DocumentCall(fname, argl); |
| } |
| else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) |
|     RESULT = new StringCall(fname, argl); |
| } |
| else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) |
|     RESULT = new BooleanCall(fname, argl); |
| } |
| else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) |
|     RESULT = new NameCall(fname);
| |


RESULT = new NameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}

else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
} else {
    RESULT = new FunctionCall(fname, argl);
}
;

NonemptyArgumentList ::= Argument:arg
{: Vector temp = new Vector();
  temp.addElement(arg);
  RESULT = temp;
:}
| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
{: RESULT = fname; :};

VariableName ::= QName:vname
{: RESULT = vname; :};

Argument ::= Expr:ex
{: RESULT = ex; :};

NodeTest ::= NameTest:nt
{: RESULT = nt; :}
| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}
| TEXT |
| {} |

| COMMENT |
| {} |

| PIPARAM LPAREN Literal:l RPAREN |
| {} |

QName name = parser.getQNameIgnoreDefaultNs("name");
Expression exp = new EqualityExpr(Operators.EQ,
    new NameCall(name),
    new LiteralExpr(l));
Vector predicates = new Vector();
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
|

| PI |
| {} |

NameTest ::= STAR |
| {} |

| QName:qn |
| {} |

QName ::= QNAME:qname |
| {} |

| DIV |
| {} |

| MOD |
| {} |

| KEY |
| {} |

| ANCESTOR |
| {} |

| ANCESTORORSELF |
| {} |

| ATTRIBUTE |
| {} |

| CHILD |
}| DESCENDANT |
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :} |

| DESCENDANTORSELF |
{: RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); :} |

| FOLLOWING |
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :} |

| FOLLOWINGSIBLING |
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :} |

| NAMESPACE |
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :} |

| PARENT |
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :} |

| PRECEDING |
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :} |

| PRECEDINGSIBLING |
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :} |

| SELF |
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :} |

| ID |
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :}; |

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup

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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java
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*/
/**
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
* Administrative class to keep track of the version number of
* the Serializer release.
* This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
*/
public final class Version
/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd] <B>D</B>nn"</CODE>
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct() + "" + getImplementationLanguage() + ""
        + getMajorVersionNum() + "." + getReleaseVersionNum() + ".";
        +( (getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
"
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th
* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/

```java
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
```

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */

```java
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
```

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */

```java
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
```

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.

```java
public static int getDevelopmentVersionNum()
{
    try {
        if ("@version.DEVELOPER@".length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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 */

/*
 * $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
 */
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */

public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "+getMajorVersionNum()+"."+getReleaseVersionNum()+"."+
    (getDevelopmentVersionNum() > 0) ?
    ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */

public static String getProduct()
{
/**
 * Implementation Language: Java.
 */

public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String(@version.DEVELOPER@)).length() == 0))
            return 0;
        else
            return Integer.parseInt(@version.DEVELOPER@);
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

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*/

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources-
jar/org/apache/xpath/domapi/XPathStyleSheetDOM3Exception.java
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 * limitations under the License.
 */

$/Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $*/

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * 
 */

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;
%%
cup
%unicode
%class XPathLexer
%yyeof
%

int last;

void initialize() {  
    last = -1;
}

static boolean isWhitespace(int c) {  
    return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
}

/**
 * If symbol is not followed by '::' or '(', then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {  
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {  
        index++;
    }

    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {  
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }

    // Return symbol if next token is '::' or '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||  
            yy_buffer[index] == '(') ?  
            new Symbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {  
    switch (last) {  
        case -1: // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.QNAME, yytext());
}
return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
case sym.DCOLON:
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
    case sym.GE:
        return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%
%eofval{
    return newSymbol(sym.EOF);
%eofval%
%yylexthrow{
    Exception
%yylexthrow%
Letter={BaseChar}|{Ideographic}

BaseChar=\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C-\u038E-\u03A1-\u03A3-\u03CE-\u03D0-
\u03D6\u03DA\u03DE\u03E0-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C8\u04CB-\u04CC\u04D0-\u04EB-\u04EE-\u04F5\u04F8-\u04F9-\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05E1-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7-\u06B9-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939-\u093D-\u0958-\u0961-
\u098C-\u098E-\u0993-\u09A8-\u09B0-\u09B2-\u09BF-\u09DC-\u09DD-\u09DF-
\u09E1-\u09F0-\u0A05-\u0A13-\u0A28-\u0A30-\u0A32-\u0A33-\u0A35-
\u0A36-\u0A38-\u0A39-\u0A59-\u0A5C-\u0A5E-\u0A72-\u0A74-\u0A85-\u0A8B-\u0A8D-\u0A8F-\u0A91-\u0A93-
```
/*          { return disambiguateStar(); } */
"/"          { return newSymbol(sym.SLASH); }
"+"          { return newSymbol(sym.PLUS); }
"-"          { return newSymbol(sym.MINUS); }
"div"        { return disambiguateOperator(sym.DIV); }
"mod"        { return disambiguateOperator(sym.MOD); }
"::"         { return newSymbol(sym.DCOLON); }
","          { return newSymbol(sym.COMMA); }
"@"          { return newSymbol(sym.ATSIGN); }
".."         { return newSymbol(sym.DDOT); }
"|"           { return newSymbol(sym.VBAR); }
"$"          { return newSymbol(sym.DOLLAR); }
"//"         { return newSymbol(sym.DSLASH); }
"="          { return newSymbol(sym.EQ); }
"!="         { return newSymbol(sym.NE); }
"!<"         { return newSymbol(sym.LT); }
">"          { return newSymbol(sym.GT); }
"<="         { return newSymbol(sym.LE); }
">="         { return newSymbol(sym.GE); }
"id"         { return disambiguateAxisOrFunction(sym.ID); }
"key"        { return disambiguateAxisOrFunction(sym.KEY); }
"text()"     { return newSymbol(sym.TEXT); }
"text[ \n\t]+" { return newSymbol(sym.TEXT); }
"node()"     { return newSymbol(sym.NODE); }
"node[ \n\t]+" { return newSymbol(sym.NODE); }
"comment()"  { return newSymbol(sym.COMMENT); }
"comment[ \n\t]+" { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction[ \n\t]+" { return newSymbol(sym.PI); }
"or"         { return disambiguateOperator(sym.OR); }
"and"        { return disambiguateOperator(sym.AND); }
"child"      { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"  { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"   { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"  { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"  { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"     { return disambiguateAxisOrFunction(sym.PARENT); }
```
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\" { return newSymbol(sym.Literal, 
    yytext().substring(1, yytext().length() - 1)); }
\[\]^\[ \} { return newSymbol(sym.Literal, 
    yytext().substring(1, yytext().length() - 1)); }
{Digit}+ { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+(\.[Digit]+)? { return newSymbol(sym.REAL, new Double(yytext())); }
\."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
\." { return newSymbol(sym.DOT); }
{[\w\u0000-\u001f]?}\{NCName\} { return newSymbol(sym.QNAME, yytext()); }
{[\w\u0000-\u001f]?}"*" { return newSymbol(sym.QNAME, yytext()); }
{[\w\u0000-\u001f]?}"*@" { return newSymbol(sym.QNAME, yytext()); }
[ 	\n\f\r\u0000-\u001f] { /* ignore white space. */ }
.

Found in path(s):
* /opt/cola/permits/1127075804_1611755843.23/0/xalan-2-7-2-sources- 
jar/org/apache/xalan/xsltc/compiler/xpathlex
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  * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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  * limitations under the License.
  */
// Proprietary
/** The 'document-location()' id (Proprietary). */
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*/

// is found, then throw a special exception in order to terminate

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*/

// is found, then throw a special exception in order to terminate

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* /opt/ws_local/PERMITS_SQL/1068640189_1595381763.56/0/json-lib-2-4-sources-jar/net/sf/json/processors/JsonValueProcessorMatcher.java
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1.395 parquet-encoding 1.9.0-cdh6.3.0

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  jar/javax/validation/bootstrap/package-info.java
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/* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertFalse.java
*/
/* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/TraversableResolver.java
*/
/* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Future.java
*/
/* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Size.java
*/
/* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertTrue.java
*/
/* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/javax/validation/spi/BootstrapState.java
*/
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Found in path(s):
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
  jar/javax/validation/ParameterNameProvider.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
  jar/javax/validation/metadata/ConstructorDescriptor.java
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  jar/java/validation/GroupSequence.java
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  jar/javax/validation/metadata/MethodDescriptor.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
  jar/javax/validation/groups/ConvertGroup.java

1.397 jetty-xml 9.3.25.v20180904
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/**

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/BuilderErrorHandler.java
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$Id: JDOMParseException.java,v 1.7 2004/02/17 02:29:24 jhunter Exp $

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$Id: JDOMResult.java,v 1.23 2004/08/31 06:10:38 jhunter Exp$

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$Id: IllegalAddException.java,v 1.25 2004/02/06 09:28:30 jhunter Exp $

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jdom: NegateFilter.java,v 1.3 2004/02/06 09:28:31 jhunter Exp $

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$Id: XSLTransformException.java,v 1.3 2004/02/06 09:28:32 jhunter Exp $

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$Id: Text.java,v 1.24 2004/02/27 11:32:57 jhunter Exp $

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$Id: DOMBuilder.java,v 1.59 2004/09/03 06:03:41 jhunter Exp $

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/*/  

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*/opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/SAXHandler.java
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Found in path(s):
* /opt/cola/permits/100009892_1646171453.54/0/jdom-1-0-sources-
jar/org/jdom/adapters/OracleV2DOMAdapter.java
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$Id: CDATA.java,v 1.30 2004/02/27 11:32:57 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/100099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/CDATA.java
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$Id: ProcessingInstruction.java,v 1.46 2004/02/27 11:32:57 jhunter Exp $

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$Id: XMLOutputter.java,v 1.112 2004/09/01 06:08:18 jhunter Exp $

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$Id: TextBuffer.java,v 1.8 2004/02/06 09:28:31 jhunter Exp $

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$Id: ContentList.java,v 1.39 2004/02/28 03:30:27 jhunter Exp $

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$Id: DOMOutputter.java,v 1.41 2004/09/03 06:03:42 jhunter Exp $

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$Id: OrFilter.java,v 1.4 2004/02/06 09:28:31 jhunter Exp $

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$Id: IllegalTargetException.java,v 1.14 2004/02/06 09:28:30 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/IllegalTargetException.java

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

$Id: JAXPParserFactory.java,v 1.5 2004/02/27 21:08:47 jhunter Exp$

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Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/JAXPParserFactory.java
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/*--

$Id: Filter.java,v 1.9 2004/02/06 09:28:31 jhunter Exp $

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*/opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/filter/Filter.java
No license file was found, but licenses were detected in source scan.

/*--
$Id: Attribute.java,v 1.52 2004/03/01 23:58:28 jhunter Exp $

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Found in path(s):
* /Users/itaas/ITK/serendipity-1.1.1-SNAPSHOT/build/jdom-1.0-sources.jar/org/jdom/Attribute.java

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

/*--

$Id: XSLTransformer.java,v 1.2 2004/02/06 09:28:32 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/100099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/transform/XSLTransformer.java
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$Id: NamespaceStack.java,v 1.13 2004/02/06 09:28:32 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/NamespaceStack.java
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$Id: JDOMFactory.java,v 1.8 2004/09/01 05:25:38 jhunter Exp $

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*/opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/JDOMFactory.java

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$Id: IllegalNameException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp $

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$Id: AttributeList.java,v 1.23 2004/02/28 03:30:27 jhunter Exp $

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$Id: ContentFilter.java,v 1.14 2004/08/31 04:56:07 jhunter Exp $

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Std: Element.java,v 1.152 2004/09/03 06:35:39 jhunter Exp $

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$Id: IllegalDataException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp $

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$Id: FilterIterator.java,v 1.5 2004/08/31 19:36:12 jhunter Exp $

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/*--

$Id: XML4JDOMAdapter.java,v 1.17 2004/02/06 09:28:31 jhunter Exp $

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$Id: OracleV1DOMAdapter.java,v 1.19 2004/02/06 09:28:31 jhunter Exp $

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/ *

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/ *--

$Id: Format.java,v 1.10 2004/09/07 06:37:20 jhunter Exp $

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$Id: EntityRef.java,v 1.21 2004/02/27 11:32:57 jhunter Exp$

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$Id: XPath.java,v 1.15 2004/02/06 09:28:32 jhunter Exp$

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$Id: JDOMSource.java,v 1.18 2004/08/31 04:43:48 jhunter Exp $

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$Id: SAXBuilder.java,v 1.89 2004/09/03 18:24:28 jhunter Exp $

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CONFIDENTIAL. NONE means that the application does not require any
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requires that the data sent between the client and server be sent in
such a way that it can't be changed in transit. CONFIDENTIAL means
that the application requires that the data be transmitted in a
fashion that prevents other entities from observing the contents of
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CONFIDENTIAL flag will indicate that the use of SSL is required.

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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2.5-20081211-4-jar/javax/servlet/resources/javaee_web_services_client_1_2.xsd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2.5-20081211-4-jar/javax/servlet/resources/javaee_5.xsd
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* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/jsp/resources/jsp_2_0.xsd
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/jspxml.xsd
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Archiver-Version: Plexus Archiver
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Built-By: janb
Build-Jdk: 1.5.0_13
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-RequiredExecutionEnvironment: J2SE-1.4
Specification-Version: 2.5
Bnd-LastModified: 1229016831353
Export-Package: javax.servlet.http;uses:="javax.servlet";version="2.5",javax.servlet;version="2.5",javax.servlet.resources;version="2.5",javax.servlet.jsp.resources;version="2.5"
Version: 2.5
Ignore-Package: javax.servlet.http,javax.servlet,javax.servlet.resources,javax.servlet.jsp.resources
Bundle-Name: Servlet Specification API
Bundle-Description: Servlet Specification API
Bundle-Document: http://www.mortbay.com
Originally-Created-By: 1.5.0_13 (Sun Microsystems Inc.)
Bundle-Vendor: Mort Bay Consulting
Bundle-ManifestVersion: 2
Bundle-SymbolicName: org.mortbay.jetty.servlet-api
Tool: Bnd-0.0.238
Implementation-Vendor: JCP

Found in path(s):
* /opt/cola/permits/1150919554_16117720638.09/0/servlet-api-2-5-20081211-4-jar/META-INF/MANIFEST.MF

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changed in transit. CONFIDENTIAL means that the application
CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):
* /opt/cola/permits/1150919554_16117720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/web-app_2_4.xsd

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* /opt/cola/permits/1150919554_16117720638.09/0/servlet-api-2-5-20081211-4-jar/javax/servlet/resources/web-app_2_5.xsd

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CONFIDENTIAL flag will indicate that the use of SSL is required.

Used in: user

Found in path(s):
* /opt/cola/permits/1150919554_1617720638.09/0/servlet-api-2-5-20081211-4.jar/javax/servlet/resources/web-
app_2_3.dtd
1.406 lz4-java 1.5.0

1.407 snappy-java 1.1.4

1.408 cxf-rt-frontend-jaxrs 3.4.4

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* Abstract: The main routine
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  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
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
  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
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  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
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  jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
  jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
  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
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
  jar/javax/validation/constraints/Digits.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
  jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
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  jar/javax/validation/valueextraction/UnwrapByDefault.java
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  jar/javax/validation/constraints/NegativeOrZero.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
  jar/javax/validation/ConstraintViolation.java
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  jar/javax/validation/ConstraintDefinitionException.java
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jar/javax/validation/metadata/Scope.java
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jar/javax/validation/constraints/Max.java
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jar/javax/validation/ReportAsSingleViolation.java
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jar/javax/validation/metadata/ReturnValueDescriptor.java
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jar/javax/validation/ParameterNameProvider.java
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jar/javax/validation/constraints/Pattern.java
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jar/javax/validation/NoProviderFoundException.java
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jar/javax/validation/Validation.java
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jar/javax/validation/ValidatorContext.java
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jar/javax/validation/spi/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/Constraint.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
jar/javax/validation/Valid.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0.2-sources-3-
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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
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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/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/constraints/DecimalMin.java
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/impl/rest/httpclient/RestS3ServiceListener.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/multithread/S3ServiceEventListener.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/multithread/S3ObjectsChunk.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/model/S3Object.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/multithread/ServiceEvent.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/org/jets3t/service/S3ObjectsChunk.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/multithread/S3ObjectsEventListener.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/S3ObjectsListener.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/S3ObjectEvent.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/model/S3Object.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/S3ObjectsChunk.java
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/multithread/ServiceEvent.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/S3ObjectsChunk.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/model/S3Object.java
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/S3ObjectsChunk.java
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-jar/src/jets3t/service/S3ObjectsChunk.java
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jar/src/org/jets3t/apps/uploader/UploaderFileExtensionFilter.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/io/OutputStreamWrapper.java
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jar/src/org/jets3t/service/io/BytesTransferredWatcher.java
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
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jar/src/org/jets3t/service/utils/Mimetypes.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/io/BytesProgressWatcher.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/gui/JHtmlLabel.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/multithread/GetObjectsEvent.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/servlets/gatekeeper/impl/RenameToUuidUrlSigner.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/apps/synchronize/SynchronizeException.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/gui/skins/html/SkinnedJPanel.java
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jar/src/org/jets3t/service/model/S3Owner.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/servlets/gatekeeper/impl/DefaultUrlSigner.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/utils/signedurl/SignedUrlAndObject.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/servlets/gatekeeper/UrlSigner.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/model/ObjectUtils.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
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* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/servlets/gatekeeper/UrlSigner.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/service/utils/ServiceUtils.java
* /opt/cola/permits/1139709450_1614684284.5/0/jets3t-0-6-1-sources-2-
jar/src/org/jets3t/apps/cockpit/CockpitPreferences.java

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  * trib/org/apache/commons/httpclient/contrb/proxy/ProxyDetectionException.java $
  * $Revision: 1.1 $
  * $Date: 2006/11/10 10:36:45 $
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 * $HeadURL:
https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/branches/HTTPCLIENT_3_0_BRANCH/src/contrib/org/apache/commons/httpclient/contrib/proxy/PluginProxyTestApplet.java $
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1.441 cglib 2.2.1-v20090111
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* /opt/cola/permits/1272441479_1645007204.63/0/jetty-security-9-3-20-v20170531-sources-jar/org/eclipse/jetty/security/AbstractUserAuthentication.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/JsonTreeWriter.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonParser.java

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  jar/org/intellij/lang/annotations/Subst.java
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* /opt/cola/permits/1138123144_1614251056.08/0/annotations-13-0-sources-3-jar/org/intellij/lang/annotations/JdkConstants.java
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1.449 javax-servlet-jsp-api 2.1

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  jar/org/springframework/beans/factory/xml/BeanDefinitionDocumentReader.java
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For hadoop-common-project/hadoop-common/src/main/native/gtest

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org.eclipse.jetty.toolchain:jetty-schemas

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jar/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractIterator.java
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jar/com/google/common/collect/Sets.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/BitMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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jar/com/google/common/collect/NullsLastOrdering.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumBiMap.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
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jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AggregateFutureState.java

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  jar/com/google/common/collection/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collection/JdkBackedImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/ExecutionSequencer.java

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  jar/com/google/common/util/concurrent/IgnoreJRERequirement.java

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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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jar/com/google/common/primitives/UnsignedInts.java
*/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/WrappingExecutorService.java
*/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
*/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
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*/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/CacheStats.java
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  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/GeneralRange.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingSortedMultiset.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedIterable.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RangeSet.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractRangeSet.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Count.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedIterables.java
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedMultiset.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
 */

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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 */

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  jar/com/google/common/base/SmallCharMatcher.java
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jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

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* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/111902615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/annotations/VisibleForTesting.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/Java8Usage.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/base/VerifyException.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredMultimap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/CompactLinkedHashMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableList.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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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/MultimapBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MoreFiles.java
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  jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/StandardTable.java
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  jar/com/google/common/collect/ImmutableListMultimap.java
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  jar/com/google/common/collect/PeekingIterator.java
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  jar/com/google/common/collect/RegularImmutableMap.java
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  jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/SingletonImmutableBiMap.java
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  jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/Table.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/collect/EmptyImmutableListMultimap.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Reflection.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/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Partially.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TopKSelector.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/Network.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Striped64.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/getBytes.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Converter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
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jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/UnmodifiableListIterator.java
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jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/SortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collection/SortedMultisets.java
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jar/com/google/common/collection/DenseImmutableTable.java
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jar/com/google/common/util/concurrent/ForwardingFuture.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.*/
Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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 */
/**
 * Holder for web specializations of methods of {code Floats}. Intended to be empty for regular
 * version.
 */

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/DiscreteDomain.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedSetFauxxerideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableAsList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/TableCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/EmptyImmutableSetMultimap.java

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* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/NotThreadSafe.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/GuardedBy.java

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* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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org.apache.tomcat:tomcat-jasper
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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

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

org.eclipse.jetty.toolchain:jetty-schemas

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* javax.servlet:javax.servlet-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
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org.eclipse.jetty.toolchain:jetty-schemas

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*  
-*/

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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  hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
  hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.7/

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bootstrap v3.3.6
broccoli-asset-rev v2.4.2
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datatables v1.10.8
em-helpers v0.5.13
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ember v2.2.0
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JCodings 1.0.8
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JLine 0.9.94
leveldbjni-all 1.8
Hamcrest Core 1.3
ASM Core 5.0.4
ASM Commons 5.0.2
ASM Tree 5.0.2

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1.472 spring-expression 5.2.5.RELEASE

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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see [Opcodes]). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 */
```
* @param name
  
  the method's name.

* @param desc
  
  the method's descriptor (see `@link Type`).

* @param signature
  
  the method's signature. May be `<tt>null</tt>`.

* @param exceptions
  
  the internal names of the method's exception classes (see `@link Type#getInternalName()` `getInternalName()`). May be `<tt>null</tt>`.

* @throws IllegalStateException
  
  If a subclass calls this constructor.

*/

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/**
 * Constructs a new [LocalVariableAnnotationNode]. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * [{@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)} version.
*
* @param typeRef
* a reference to the annotated type. See [TypeReference].
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
* the fist instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see {@link Opcodes}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see {@link Type}).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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*/
/**
* Constructs a new [@link Textifier]. &lt;i&gt;Subclasses must not use this
* constructor. Instead, they must use the {@link #Textifier(int)}
* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
* /

Found in path(s):
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* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/ByteVector.java
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*/
/**
 * Creates a new [GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [Type Type]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
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* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
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* /opt/cola/permits/1139149787_1614408821.0/0/asm-5-0-2-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

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1.476 scala-reflect 2.11.12

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/** The entry point into Scala runtime reflection.
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 * See [[scala.reflect.api.Universe]] or the
 * for more details.
 */
```

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1.477 jetty 9.4.20.v20190813

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

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The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.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

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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
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
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org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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

org.eclipse.jetty.toolchain:jetty-schemas

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Version: GnuPG v1.4.1 (Darwin)
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E-Mail: ngonzalez@exist.com
Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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Version: GnuPG v1.4.4 (MingW32)
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Mailing Address: 4676 Admiralty Way, Suite 520
    Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail:    gordon.king@simulalabs.com
Fax:       +1 800 822 0471

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
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E-Mail: jules@coredevelopers.net
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1.479 parquet-jackson 1.10.0

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1.481 hadoop-yarn-server-resourcemanager

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For hadoop-common-project/hadoop-common/src/main/native/gtest

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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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g ember-cli-dependency-checker v1.2.0
g ember-cli-htmlbars v1.0.2
g ember-cli-htmlbars-inline-precompile v0.3.1
g ember-cli-ic-ajax v0.2.1
g ember-cli-inject-live-reload v1.4.0
g ember-cli-jquery-ui v0.0.20
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g ember-cli-release v0.2.8
g ember-cli-shims v0.0.6
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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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

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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

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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. 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.
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1.493 asm 5.0.4

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/Processor.java
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
*    deprecated.
* @param name
*    the method's name.
* @param desc
*    the method's descriptor (see [ @link Type]).
* @param signature
*    the method's signature. May be <tt>null</tt>.
* @param exceptions
*    the internal names of the method's exception classes (see
*    { @link Type#getInternalName() getInternalName }). May be
*    <tt>null</tt>.
* @throws IllegalStateException
*             If a subclass calls this constructor.
*/

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/**
 * Creates 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 mv
 * 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 desc
 * the method's descriptor (see [@link Type Type]).
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
/*

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 */
/**
 * Constructs a new [Textifier](#Textifier). Subclasses must not use this
 * constructor. Instead, they must use the [Textifier(int)] version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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 */
/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the `{@link #ClassNode(int)}`
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 *
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 *
 * @param desc

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* the class descriptor of the annotation class.
*/

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* Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [{ @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}]
* version.
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see \[@link Opcodes\]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see \[@link Type\]).
* @param mv
* the method visitor to which this adapter delegates calls. May
* be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* Abstract: The main routine
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*/

For hadoop-common-project/hadoop-common/src/main/native/gtest
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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
bootstrap v3.3.6
broccoli-asset-rev v2.4.2
broccoli-funnel v1.0.1
datatables v1.10.8
em-helpers v0.5.13
em-table v0.1.6
ember v2.2.0
ember-array-contains-helper v1.0.2
ember-bootstrap v0.5.1
ember-cli v1.13.13
ember-cli-app-version v1.0.0
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momentjs v2.10.6
qunit v1.19.0
select2 v4.0.0
snippet-ss v1.11.0
spin.js v2.3.2
Azure Data Lake Store - Java client SDK 2.0.11
JCodings 1.0.8
Joni 2.1.2
Mockito 1.8.5
JUL to SLF4J bridge 1.7.25
SLF4J API Module 1.7.25
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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: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

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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. 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.

1.496 swagger-annotations 1.5.17
1.496.1 Available under license:

```java
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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
 *<p>
 * @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 "";
```
1.497 jersey-container-servlet-core 2.25.1
1.497.1 Available under license :
   CDDL/GPL License
   http://glassfish.java.net/public/CDDL/GPL_1_1.html

1.498 snappy-java 1.1.7.2

1.499 failureaccess 1.0.1
1.499.1 Available under license :
   No license file was found, but licenses were detected in source scan.

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     */

    Found in path(s):
    */opt/cola/permits/1199742917_1630577017.47/0/failureaccess-1-0-1-sources-3-
    jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java
    */opt/cola/permits/1199742917_1630577017.47/0/failureaccess-1-0-1-sources-3-
    jar/com/google/common/util/concurrent/internal/InternalFutures.java

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1.501 netty-handler-proxy 4.1.71.Final

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* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4.1.71-final-sources-jar/io/netty/channel/sctp/SctpServerChannel.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4.1.71-final-sources-jar/io/netty/channel/sctp/SctpChannelConfig.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4.1.71-final-sources-jar/com/sun/nio/sctp/PeerAddressChangeNotification.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4.1.71-final-sources-jar/io/netty/channel/sctp/SctpMessage.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4.1.71-final-sources-jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4.1.71-final-sources-jar/io/nio/NioSctpChannel.java
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* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4.1.71-final-sources-jar/com/sun/nio/sctp/AssociationChangeNotification.java
* /opt/cola/permits/1258617672_1643096291.47/0/netty-transport-sctp-4.1.71-final-sources-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
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* /opt/cola/permits/1255138848_1653633861.512536/0/simple-java-mail-4-0-0-sources-jar/org/simplejavamail/internal/util/MimeMessageParser.java

1.517 hive-storage-api 2.7.0
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1.518 j2objc-annotations 1.3
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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */

public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }
}
public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
}

class PermissionCollection {
    public abstract String getActions();

    public abstract boolean implies(Permission permission);

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-------------------------------------------------------------------}
<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following character</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>
If this is not the behavior, the subclass should document any differences.

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@ author Alan Liu
@ stable ICU 2.0
<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable
@auth Alan Liu
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 */
/**
 * Constructs a new [Textifier]. <i>Subclasses must not use this
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 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
```

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*

/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 *
 * @param access
 * the method's access flags (see {@link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see {@link Type}).
 *
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 *
 * @param exceptions
 * the internal names of the method's exception classes (see
{@link Type#getInternalName() getInternalName}). May be <tt>null</tt>.  
@throws IllegalStateException  
If a subclass calls this constructor.

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* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/FrameNode.java
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* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/util/CheckModuleAdapter.java
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* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java

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*/
/**
* Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor) }
* version.
*
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see { @link Opcodes }).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see { @link Type Type }).
* @param mv
* the method visitor to which this adapter delegates calls. May
* be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

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  jar/org/objectweb/asm/commons/package.html
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  jar/org/objectweb/asm/package.html
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  jar/org/objectweb/asm/util/package.html
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/**
 * Creates 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 mv
 * 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 desc
 * the method's descriptor (see [ @link Type ]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
  jar/org/objectweb/asm/xml/SAXAdapter.java
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  jar/org/objectweb/asm/xml/SAXFieldAdapter.java
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  jar/org/objectweb/asm/xml/Processor.java
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  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
  jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/ cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
  jar/org/objectweb/asm/xml/SAXModuleAdapter.java
* /opt/cola/permits/1144946341_1654255967.7680578/0/asm-tree-6-0-sources-2-
  jar/org/objectweb/asm/xml/SAXCodeAdapter.java

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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *    a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 *    the path to the annotated type argument, wildcard bound, array
 *    element type, or static inner type within 'typeRef'. May be
 *    <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *    the fist instructions corresponding to the continuous ranges
 *    that make the scope of this local variable (inclusive).
 * @param end
 *    the last instructions corresponding to the continuous ranges
 *    that make the scope of this local variable (exclusive). This
 *    array must have the same size as the 'start' array.
 * @param index
 *    the local variable's index in each range. This array must have
 *    the same size as the 'start' array.
 * @param desc
 *    the class descriptor of the annotation class.
 */

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1.524 hadoop-mapreduce-client-jobclient

3.0.0-cdh6.3.0

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/*

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For hadoop-common-project/hadoop-common/src/main/native/gtest

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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

Apache HBase - Server which contains JQuery minified javascript library version 1.8.3

Microsoft JDBC Driver for SQLServer - version 6.2.1.jre7

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jamon-runtime 2.4.1

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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  * https://github.com/jponge/lzma-java

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

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Oracle OpenJDK

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* 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
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org.ow2.asm:asm

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  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

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  org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /opt/cola/permits/1272432784_1645007166.0/0/jetty-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/servlet/listener/package-info.java
* /opt/cola/permits/1272432784_1645007166.0/0/jetty-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/servlet/jmx/FilterMappingMBean.java
* /opt/cola/permits/1272432784_1645007166.0/0/jetty-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/servlet/Invoker.java
* /opt/cola/permits/1272432784_1645007166.0/0/jetty-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/servlet/package-info.java
* /opt/cola/permits/1272432784_1645007166.0/0/jetty-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/servlet/FilterMapping.java
* /opt/cola/permits/1272432784_1645007166.0/0/jetty-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/servlet/listener/ELContextCleaner.java
* /opt/cola/permits/1272432784_1645007166.0/0/jetty-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/servlet/listener/IntrospectorCleaner.java
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* /opt/cola/permits/1272432784_1645007166.0/0/jetty-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/servlet/ServletHolder.java
* /opt/cola/permits/1272432784_1645007166.0/0/jetty-servlet-9-3-25-v20180904-sources-jar/org/eclipse/jetty/servlet/NoJspServlet.java

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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1.jar/org/springframework/aop/target/LazyInitTargetSource.java
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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1.jar/org/springframework/aop/framework/adapter/AfterReturningAdviceAdapter.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1.jar/org/springframework/aop/framework/support/JdkRegexpMethodPointcut.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1.jar/org/springframework/aop/interceptor/DebugInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSource.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/MetadataAware AspectInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSource.java
1.537 flume-kafka-source 1.9.0-cdh6.3.0

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1.538 hive-storage-api 2.1.1-cdh6.3.0

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1.539 apache-ds-kerberos-codec 2.0.0-M15

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 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard {@link java.lang.Appendable} and provides methods to append UTF-8
 * encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to {@link #append(byte)} may be needed before state a character is
 * appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
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1.543 commons-codec 1.10

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jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/LongMemberValue.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/Handler.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/ClassPool.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/Util/HotSwapper.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/loader/LoaderClassLoader.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/StackMap.java

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1.562 javax-inject 1

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* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-jar/org/slf4j/impl/SimpleLoggerFactory.java
* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-
jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-
jar/org/slf4j/impl/StaticMDCBinder.java
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* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-
jar/org/slf4j/impl/SimpleLogger.java

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1.571 jackson-jaxrs 2.10.3

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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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### 1.572 re2j 1.1

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* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/RE2.java
* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/MachineInput.java
* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/Prog.java
* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/Regexp.java
* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/CharClass.java
* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/Parser.java
* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/PatternSyntaxException.java
* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/Compiler.java
* /opt/cola/permits/1258508380_1643078715.8/0/re2j-1-1-sources-jar/com/google/re2j/Machine.java

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*/
/**
 * Creates 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 mv
 * 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 desc
 * the method's descriptor (see [@link Type Type]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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 */
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [ @link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String) ]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [ @link TypeReference ].
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* &lt;tt>null&lt;/tt> if the annotation targets 'typeRef' as a whole.
* @param start
* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

Found in path(s):
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
  jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/InnerClassNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/CurrentFrame.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/FrameNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/InsnNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleOpenNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ParameterNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/TraceModuleVisitor.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleProvideNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/CheckModuleAdapter.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Frame.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/TreeVisitor.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleExportNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/FieldWriter.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/CurrentFrame.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/IntInsnNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/FieldNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/SmallSet.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/AbstractInsnNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleExportNode.java
  */opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/Interpreter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm.Handle.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/signature/SignatureVisitor.java
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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 *
 * @param access
 * the method's access flags (see {@link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see {@link Type}).
* @param signature
  * the method's signature. May be <tt>null</tt>.
* @param exceptions
  * the internal names of the method's exception classes (see
  * { @link Type#getName() getName()}). May be
  * <tt>null</tt>.
* @throws IllegalStateException
  * If a subclass calls this constructor.
*/

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  jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 */
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see {@link Opcodes}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see {@link Type}).
* @param mv
* the method visitor to which this adapter delegates calls. May be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/TypeReference.java

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*/
/**
 * Constructs a new [Textifier](Textifier). <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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/**
 * Constructs a new {link ClassNode}. <i>Subclasses must not use this
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 * version.
 *
 * @throws IllegalStateException
 *          If a subclass calls this constructor.
 */

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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ClassNode.java

1.575 commons-lang3 2.6


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  jar/org/apache/twill/discovery/DiscoveryServiceClient.java
* /opt/cola/permits/1137747599_1614121902.52/0/twill-discovery-api-0.6.0-incubating-sources-2-
  jar/org/apache/twill/discovery/ServiceDiscovered.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/FixedRecvByteBufAllocator.java
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jar/io/netty/channel/socket/nio/NioSocketChannel.java
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jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/local/LocalServerChannel.java
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jar/io/netty/channel/ChannelDuplexHandler.java
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jar/io/netty/channel/RecvByteBufAllocator.java
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jar/io/netty/channel/FileRegion.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/SucceededChannelFuture.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-

jar/io/netty/channel/embedded/package-info.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/local/package-info.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/FailedChannelFuture.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/ChannelHandlerContext.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-
jar/io/netty/channel/oio/OioByteStreamChannel.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
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* /opt/cola/permits/1258617773_1643096322.09/0/netty-transport-4-1-71-final-sources-jar/io/netty/channel/socket/oio/SelectedSelectionKeySet.java
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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 SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}

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:

// Create a new handler instance per channel.
// See ChannelInitializer#initChannel(CHANNEL).
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

Using AttributeKey

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 AttributeKey which is provided by ChannelHandlerContext:

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 (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 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 <b>SHARED</b> = new DataServerHandler();
* 
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* </pre>
* 
* <h4>The { @code @Sharable } annotation</h4>

* 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.

This annotation is provided for documentation purpose, just like

Additional resources worth reading

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.

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1.582 java-util 1.9.0
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/**
 * Generate a unique ID that fits within a long value quickly, will never create a duplicate value,
 * even if called insanely fast, and it incorporates part of the IP address so that machines in
 * a cluster will not create duplicates. It guarantees no duplicates because it keeps
 * the last 100 generated, and compares those against the value generated, if it matches, it
 * will continue generating until it does not match. It will generate 100 per millisecond without
 * matching. Once the requests for more than 100 unique IDs per millisecond is exceeded, the
 * caller will be slowed down, because it will be retrying. Keep in mind, 100 per millisecond is
 * 10 microseconds continuously without interruption.
 *
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/**
 * Useful utility for allowing Java code to make Ajax calls, yet the Java code
 * can make these calls via Dynamic Proxies created from Java interfaces for
 * the remote server(s).
 *
 * Example:
 *
 * Assume you have a tomcat instance running a JSON Command Servlet, like com.cedarsoftware's or
 * Spring MVC.
 *
 * Assume you have a Java interface 'Explorer' that is mapped to a Java bean that you are allowing
 * to be called through RESTful JSON calls (Ajax / XHR).
 *
* Explorer has methods on it, like getFiles(userId), etc.

* You need to use a SessionAware (JSESSIONID only) or CookieAware UrlInvocationHandler to interact with the server so that the cookies will be placed on all requests. In Javascript within browsers, this is taken care of for you. Not so in the Java side.

* <pre>
  Map cookies = new HashMap();
  String url = "http://www.mycompany.com:80/json/"
  InvocationHandler handler = new CookieAwareUrlInvocationHandler(new URL(url), cookies);
  // This will handle all cookies, or you could use (where 'sessionId' holds the value of the JSESSIONID
  InvocationHandler handler = new SessionAwareUrlInvocationHandler(new URL(url), sessionId);
  *
  Explorer explorer = (Explorer) ProxyFactory.create(Explorer.class, handler);
  *
  At this point, your Java code can do this:
  *
  * List files = explorer.getFiles(userId);
  * </pre>

* @author John DeRegnaucourt (jdereg@gmail.com) & Ken Partlow (kpartlow@gmail.com)
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/**
* Useful encryption utilities that simplify tasks like getting an
* encrypted String return value (or MD5 hash String) for String or
* Stream input.
*
* @author John DeRegnaucourt (jdereg@gmail.com)
*  
*/
Found in path(s):
* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-jar/com/cedarsoftware/util/EncryptionUtilities.java
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/**
 * Test two objects for equivalence with a 'deep' comparison. This will traverse
 * the Object graph and perform either a field-by-field comparison on each
 * object (if no .equals() method has been overridden from Object), or it
 * will call the customized .equals() method if it exists. This method will
 * allow object graphs loaded at different times (with different object ids)
 * to be reliably compared. Object.equals() / Object.hashCode() rely on the
 * object's identity, which would not consider two equivalent objects necessarily
 * equals. This allows graphs containing instances of Classes that did not
 * override .equals() / .hashCode() to be compared. For example, testing for
 * existence in a cache. Relying on an object's identity will not locate an
 * equivalent object in a cache.<br/><br/>
 * This method will handle cycles correctly, for example A->B->C->A. Suppose a and
 * a' are two separate instances of A with the same values for all fields on
 * A, B, and C. Then a.deepEquals(a') will return true. It uses cycle detection
 * storing visited objects in a Set to prevent endless loops.
 *
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/**
 * This invocation handler maintains the cookies for the connection.
 * 
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* /opt/cola/permits/1120497727_1609978056.99/0/java-util-1-9-0-sources-
jar/com/cedarsoftware/util/CookieAwareUrlInvocationHandler.java
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/**
 * Useful System utilities for common tasks
 *
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jar/com/cedarsoftware/util/SystemUtilities.java
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/**
 * Useful utilities for working with UrlConnections and IO.
 *
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  jar/com/cedarsoftware/util/UrlUtilities.java
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/**
 * Handy utilities for working with Java Dates.
 *
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  jar/com/cedarsoftware/util/DateUtilities.java
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  jar/com/cedarsoftware/util/ReflectionUtils.java
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/**
 * Implements a java.util.Set that will not utilize 'case' when comparing Strings
 * contained within the Set. The set can be homogeneous or heterogeneous.
 * If the CaseInsensitiveSet is iterated, when Strings are encountered, the original
 * Strings are returned (retains case).
 *
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  jar/com/cedarsoftware/util/CaseInsensitiveSet.java
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/**
 * Useful IOUtilities that simplify common io tasks
 *
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/**
* Handy utilities for working with Java arrays.
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jar/com/cedarsoftware/util/ArrayUtilities.java
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/**
* Useful Map that does not care about the case-sensitivity of keys
* when the key value is a String. Other key types can be used.
* String keys will be treated case insensitively, yet key case will
* be retained. Non-string keys will work as they normally would.
*
* The internal CaseInsensitiveString is never exposed externally
* from this class. When requesting the keys or entries of this map,
* or calling containsKey() or get() for example, use a String as you
* normally would. The returned Set of keys for the keySet() and
* entrySet() APIs return the original Strings, not the internally
* wrapped CaseInsensitiveString.
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  jar/com/cedarsoftware/util/CaseInsensitiveMap.java
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/**
* Java Object Graph traverser. It will visit all Java object
* reference fields and call the passed in Visitor instance with
* each object encountered, including the root. It will properly
* detect cycles within the graph and not hang.
*
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/**
 * Useful Math utilities
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/**
 * This class implements a Thread-Safe (re-entrant) SimpleDateFormat
 * class. It does this by using a ThreadLocal that holds a Map, instead
 * of the traditional approach to hold the SimpleDateFormat in a ThreadLocal.
 *
 * Each ThreadLocal holds a single HashMap containing SimpleDateFormates, keyed
 * by a String format (e.g. "yyyy/M/d", etc.), for each new SimpleDateFormat
 * instance that was created within the thread's execution context.
 *
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jar/com/cedarsoftware/util/SafeSimpleDateFormat.java
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/**
 * This handler adds the JSESSIONID cookie so that the Java Application (or Applet)
can respond with the HTTP session Cookie header.
 *
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 * Useful String utilities for common tasks
 *
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1.583 json-java 20160810

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Eclipse

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* 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

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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

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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

------
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
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1.585 flume-shared-kafka 1.9.0-cdh6.3.0

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* 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
OW2

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

Apache

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

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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1.594 netty-resolver-dns-native-macos
4.1.71.Final
1.594.1 Available under license:

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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver/DNS/Native/MacOS
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver.dns.macos
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver-dns-native-macos
Implementation-Version: 4.1.71.Final
Built-By: norman
Bnd-LastModified: 1639060829690
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Resolver/DNS/Native/MacOS
Bundle-Version: 4.1.71.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-resolver-dns-native-macos/

Found in path(s):
* /opt/cola/permits/1258617660_1643106494.83/0/netty-resolver-dns-native-macos-4-1-71-final-jar/META-INF/MANIFEST.MF
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1.597 jersey-client 1.9

1.598 netty-codec 4.1.71.Final
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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java

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  jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
  jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
  jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
  jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
  jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
  jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
  jar/io/netty/handler/codec/string/StringDecoder.java
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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
  jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-
  jar/io/netty/handler/codec/compression/Lz4XXHash32.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>
<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
<th>initialBytesToStrip</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
</pre>
```

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

Because we can get the length of the content by calling `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>
<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
<th>initialBytesToStrip</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>
</pre>
```

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

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 `lengthAdjustment`. 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 compensation.
* lengthFieldOffset = 0
* lengthFieldLength = 2
* \(<b>\)lengthAdjustment\(<b>\) = \(<b>-2\) (= 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" |
  * +--------+----------------+      +--------+----------------+

* ch3> 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>
* * lengthFieldOffset = 2 (= the length of Header 1)
* * lengthFieldLength = 3
* * 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>

* ch3> 3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

* 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 \(<tt>\)lengthAdjustment\(<tt>\) so that the decoder counts the extra
* header into the frame length calculation.
* * <pre>
* * lengthFieldOffset = 0
* * lengthFieldLength = 3
* * \(<b>\)lengthAdjustment\(<b>\) = \(<b>2\) (= 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 |
*  * | 0x0000C | 0xCAFE  | "HELLO, WORLD" |      | 0x0000C | 0xCAFE  | "HELLO, WORLD" |
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 `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` 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 `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x000C</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

```
<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

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.

```
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
lengthAdjustment    = -3 (= the length of HDR1 + LEN, negative)
initialBytesToStrip = 3 (= the length of HDR1 + LEN)
```

```
<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x0010</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

```
<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```
* @see LengthFieldPrepender
*/

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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
jar/io/netty/handler/code/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Bzip2BitReader.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Lz4Constants.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/FastLz.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Bzip2BitWriter.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Bzip2Encoder.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Crc32.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Bzip2Rand.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/json/package-info.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/AsciiHeadersEncoder.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/MessageAggregationException.java
* /opt/cola/permits/1272337401_1644993369.3/o/netty-codec-4-1-71-final-sources-
jar/io/netty/handler/code/compression/Bzip2Decoder.java

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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/ValueConverter.java
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 * <p>
 * The internal lookup tables in this class has been derived from
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* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1272337401_1644993369.3/0/netty-codec-4-1-71-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java

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* javax.annotation:javax.annotation-api
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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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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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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

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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
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

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* 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

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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

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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

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1.619 hive-shims-common 2.1.1-cdh6.3.0

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1.622 hbase-procedure 2.1.0-cdh6.3.0

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JDBC Driver Support

Introduction
SQLLine is a pure-Java console based utility for connecting to relational databases and executing SQL commands. It is similar to other command-line database access utilities like sqlplus for Oracle, mysql for MySQL, and isql for Sybase/SQL Server. Since it is pure-Java, it is platform independent, and will run on any platform that can run Java 1.3 or higher.

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Obtaining SQLLine

SQLLine is hosted on SourceForge, and is located at http://sqlline.sf.net. The latest release can be downloaded from http://sqlline.sf.net/download.html.

Installation

Required software
Installing SQLLine
Required software

SQLLine depends on the following software:

Java™ Virtual Machine - SQLLine is a pure java program, and requires Java version 1.3 or higher in order to run. The latest JVM can be downloaded from http://java.sun.com.

JLine - SQLLine uses the JLine console reader for command line editing, tab-completion, and command history. It can be downloaded from http://jline.sf.net. Version 0.8.1 or higher is required.

JDBC™ Driver(s) - Since SQLLine uses the Java Database Connectivity package to connect to your database, you need to obtain the correct JDBC driver libraries for your database. Any JDBC compliant driver can be used for this purpose. Drivers can be located by referring to the section on known JDBC drivers, or else by referring to your database vendor's web site.

Installing SQLLine

There are currently no set standards for installing Java software on different platforms. The simplest method for installing SQLLine in a platform independent way is as follows:

Create a new directory/folder where you like. This will be referred to as sqllinedir.

Download sqlline.jar into sqllinedir.

Download the latest jline.jar from http://jline.sf.net into sqllinedir.
Download your database's JDBC driver files into sqllinedir. Note that some JDBC drivers require some installation, such as uncompressing or unzipping.

Using SQLLine

Running SQLLine
Connecting to a database
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Command Completion
Running SQLLine

SQLLine can be run with the following command:

```
java {-Djava.ext.dirs=sqllinedir} {sqllinedir/sqlline.jar} [options...] [properties files...]
```

For example, if your sqllinedir is /usr/share/java/ (this is typical for Debian Linux), then you might run:

```
java -Djava.ext.dirs=/usr/share/java/ /usr/share/java/sqlline.jar
```

Once you have started SQLLine, you will a prompt that reads "sqlline> ". From here, you can enter either SQLLine commands (beginning with a "!" character), or a SQL statement (if you are currently connected to a database). For example, entering "!help" will display a list of all the available commands.

Connecting to a database

SQLLine is only useful once you are connected to a database. In order to do so, you need to use the "!connect" command, with the JDBC URL of the database you are going to connect to, followed by the username and password (followed optionally by the driver class name). The JDBC URL is specific to the JDBC driver that you are using for your database, but will always start with "jdbc:", and usually has the machine name of the database and the name of the database itself as part of the string. Consult your driver's documentation for details on the URL to use.

For example, to connect to an Oracle database, you might enter:

```
sqlline> !connect jdbc:oracle:thin:@localhost:1521:mydb scott tiger oracle.jdbc.driver.OracleDriver
```

Connected to: Oracle (version Oracle9i Enterprise Edition Release 9.2.0.1.0 - Production
With the Partitioning, OLAP and Oracle Data Mining options
JServer Release 9.2.0.1.0 - Production)
Driver: Oracle JDBC driver (version 9.0.1.0.0)
Autocommit status: true

0: jdbc:oracle:thin:@localhost:1521:mydb>

Once you are connected, the prompt will change the reflect URL of the current connection.

SQLLine can also accept command line options to connect to a database. If a file is specified on the command line, it will be treated as a properties file, and try to connect to the database specified therein. For details, see the
properties command documentation.

SQLLine allows you to have multiple connections to databases (either the same database, or a different database) open at the same time. Issuing the connect command multiple times will add the new connection to the list of open connections. The "current" connection (against which all SQL statements will be executed) can be switched with the go command. The currently open connections can be listed with the list command.

Issuing SQL commands

Once you are connected to a database, you can begin SQL statements against the current connection. For example:

Example 1. Issuing SQL commands

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM MYTABLE;

+-----+
| ID  |
+-----+
| 1   |
| 2   |
| 3   |
| 4   |
+-----+
4 rows selected (0.012 seconds)
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

Command Completion

On UNIX systems, SQLLine allows command-line completion using the tab key. This will be familiar for users of such popular shells as bash and tcsh. In general, hitting the TAB key when part of the way through typing a command will fill in the rest of the command, or else will display a selection of appropriate possibilities.

Command Reference

```
all
  all — Execute SQL against all active connections
autocommit
  autocommit — Enable or disable automatic transaction commit mode
batch
  batch — Start or execute a batch of SQL statements
brief
  brief — Enable terse output mode
close
  close — Close the active connection
columns
  columns — Display columns of a table
commit
```
commit — Commit the current transaction
connect
connect — Connect to a database
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dbinfo — Provide information about the current database
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describe — Describe a table
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procedures — List stored procedures
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properties — Connect to the database defined in the specified properties file.
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quit — Exit SQLLine
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reconnect — Reconnect to the current database
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record — Begin recording all output from SQL commands
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rehash — Obtain a list of all tables and columns from the database
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rollback — Roll back the current transaction
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run — Execute a command script
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save — Save the current preferences
scan
scan — Scan class path for JDBC drivers
script
script — Save executed commands to a file
set
set — Set a preference
sql
sql — Execute a SQL against a database
tables
tables — List all the tables in the database
verbose
verbose — Enable verbose output
all
Name
all — Execute SQL against all active connections
Synopsis
!all [SQL statement]
Description
Execute the specified SQL against all the current connections.
Example of "all" command
1: jdbc:mysql://localhost/mydb> !list
2 active connections:
#0 open  jdbc:oracle:thin:@localhost:1521:mydb
#1 open  jdbc:mysql://localhost/mydb
1: jdbc:mysql://localhost/mydb> !all DELETE FROM COMPANY;
Executing SQL against: jdbc:oracle:thin:@localhost:1521:mydb
4 rows affected (0.004 seconds)
Executing SQL against: jdbc:mysql://localhost/mydb
1 row affected (3.187 seconds)
1: jdbc:mysql://localhost/mydb>
autocommit
Name
autocommit — Enable or disable automatic transaction commit mode

Synopsis

!autocommit {on/off}

Description

Set autocommit mode on or off. When autocommit is on, every individual SQL statement will be committed after it is issued. Otherwise, the commit command will need to be issued in order to commit any changes to the database.

Example of "autocommit" command

1: jdbc:mysql://localhost/mydb> !autocommit off

Autocommit status: false

1: jdbc:mysql://localhost/mydb>

batch

Name

batch — Start or execute a batch of SQL statements

Synopsis

!batch

Description

Start or execute a batch of SQL statements. The first time the statement is issued, subsequent SQL statements will be deferred until the batch command is issued again. Databases can frequently optimize multiple batched statements (e.g., for bulk data loading) in order to speed up execution.

Example of "batch" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !batch

Batching SQL statements. Run "batch" again to execute the batch.

0: jdbc:oracle:thin:@localhost:1521:mydb> INSERT INTO MYTABLE (ID) VALUES (1);
0: jdbc:oracle:thin:@localhost:1521:mydb> INSERT INTO MYTABLE (ID) VALUES (2);
0: jdbc:oracle:thin:@localhost:1521:mydb> INSERT INTO MYTABLE (ID) VALUES (3);
0: jdbc:oracle:thin:@localhost:1521:mydb> INSERT INTO MYTABLE (ID) VALUES (4);
0: jdbc:oracle:thin:@localhost:1521:mydb> !batch


Running batched SQL statements...

COUNT STATEMENT
1 INSERT INTO MYTABLE (ID) VALUES (1)
1 INSERT INTO MYTABLE (ID) VALUES (2)
1 INSERT INTO MYTABLE (ID) VALUES (3)
1 INSERT INTO MYTABLE (ID) VALUES (4)

0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM MYTABLE;

+-----+
| ID  |
+-----+
| 1   |
| 2   |
| 3   |
| 4   |
+-----+
4 rows selected (0.012 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb>

brief

Name

brief — Enable terse output mode

Synopsis

!brief

Description

Set verbose mode off. This will prevent printing of stack traces when errors occur.

Example of "brief" command

0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM BOGUS_TABLE;

Error: ORA-00942: table or view does not exist (state=42000,code=942)
java.sql.SQLException: ORA-00942: table or view does not exist

at oracle.jdbc.dbaccess.DBError.throwSqlException(DBError.java:180)
at oracle.jdbc.ttc7.TTIoer.processError(TTIoer.java:208)
at oracle.jdbc.ttc7.Oall7.receive(Oall7.java:543)
at oracle.jdbc.ttc7.TTC7Protocol.doOall7(TTC7Protocol.java:1451)
at oracle.jdbc.ttc7.TTC7Protocol.parseExecuteDescribe(TTC7Protocol.java:651)
at oracle.jdbc.driver.OracleStatement.doExecuteQuery(OracleStatement.java:2110)
at oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:2324)
at oracle.jdbc.driver.OracleStatement.execute(OracleStatement.java:909)
at sqlline.SqlLine$Commands.sql(SqlLine.java:3183)
at sqlline.SqlLine.dispatch(SqlLine.java:771)
at sqlline.SqlLine.begin(SqlLine.java:634)
at sqlline.SqlLine.main(SqlLine.java:332)

0: jdbc:oracle:thin:@localhost:1521:mydb> !brief

verbose: off

0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM BOGUS_TABLE;

Error: ORA-00942: table or view does not exist (state=42000,code=942)

0: jdbc:oracle:thin:@localhost:1521:mydb>

close

Name
close — Close the active connection

Synopsis

!close

Description

Close the current connection and remote it from the connection list.

Example of "close" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !list

1 active connection:
#0 open  jdbc:oracle:thin:@localhost:1521:mydb

0: jdbc:oracle:thin:@localhost:1521:mydb> !close

Closing: oracle.jdbc.driver.OracleConnection

sqlline> !list

No active connections

sqlline>

columns
Name

columns — Display columns of a table

Synopsis

!columns {table name}

Description

List the columns in the specified table.

Example of "columns" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !columns EMPLOYEE

+-------------+--------------+------------+------------+
| TABLE_NAME  | COLUMN_NAME  | DATA_TYPE  | TYPE_NAME  |
| EMPLOYEE    | ID           | 3          | NUMBER     |
| EMPLOYEE    | FIRST_NAME   | 12         | VARCHAR2   |
| EMPLOYEE    | LAST_NAME    | 12         | VARCHAR2   |
+-------------+--------------+------------+------------+

0: jdbc:oracle:thin:@localhost:1521:mydb>

commit

Name

commit — Commit the current transaction

Synopsis

!commit

Description

Commit the current transaction, if autocommit is off.

Example of "commit" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !autocommit off

Autocommit status: false

0: jdbc:oracle:thin:@localhost:1521:mydb> INSERT INTO EMPLOYEE (ID, FIRST_NAME, LAST_NAME)
VALUES (1, 'Bob', 'Smith');
1 row affected (1.254 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb> !commit
Commit complete (0.661 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM EMPLOYEE;

+--------------+-------------+------------+
| ID           | FIRST_NAME  | LAST_NAME  |
+--------------+-------------+------------+
| 1            | Bob         | Smith      |
+--------------+-------------+------------+
1 row selected (0.309 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb>

connect
Name

connect — Connect to a database

Synopsis

!connect {url} {username} {password} [driver class]

Description

Connect to a database.

Example of "commit" command

sqlline> !connect jdbc:oracle:thin:@localhost:1521:mydb scott tiger oracle.jdbc.driver.OracleDriver

Connected to: Oracle (version Oracle9i Enterprise Edition Release 9.2.0.1.0 - Production
With the Partitioning, OLAP and Oracle Data Mining options
JServer Release 9.2.0.1.0 - Production)
Driver: Oracle JDBC driver (version 9.0.1.0.0)
Autocommit status: true

0: jdbc:oracle:thin:@localhost:1521:mydb>

dbinfo
Name
dbinfo — Provide information about the current database

Synopsis

!dbinfo

Description

List metadata information about the current connection.

Example of "dbinfo" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !dbinfo

allProceduresAreCallable false
allTablesAreSelectable false
dataDefinitionCausesTransactionCommit true
dataDefinitionIgnoredInTransactions false
doesMaxRowSizeIncludeBlobs true
getCatalogSeparator
getCatalogTerm
getDatabaseProductName Oracle
getDatabaseProductVersion Oracle9i Enterprise Edition Release 9.2.0.1.0 - Production
With the Partitioning, OLAP and Oracle Data Mining options
JServer Release 9.2.0.1.0 - Production
getDefaultTransactionIsolation 2
getDriverMajorVersion 9
getDriverMinorVersion 0
getDriverName Oracle JDBC driver
getDriverVersion 9.0.1.0.0
getExtraNameCharacters $#
getIdentifierQuoteString "
getMaxBinaryLiteralLength 1000
getMaxCatalogNameLength 0
getMaxCharLiteralLength 2000
getMaxColumnNameLength 30
getMaxColumnsInGroupBy 0
getMaxColumnsInIndex 32
getMaxColumnsInOrderBy 0
getMaxColumnsInSelect 0
getMaxColumnsInTable 1000
getMaxConnections 0
getMaxCursorNameLength 0
getMaxIndexLength 0
getMaxProcedureNameLength 30
getMaxRowSize 2000
getMaxSchemaNameLength 30
getMaxStatementLength 65535
getMaxStatements: 0
getMaxTableNameLength: 30
getMaxTablesInSelect: 0
getMaxUserNameLength: 30
getNumericFunctions: ABS, CEIL, COS, COSH, EXP, FLOOR, LN, LOG, MOD, POWER, ROUND, SIGN, SIN, SINH, SQRT, TAN, TANH, TRUNC, AVG, COUNT, GLB, LUB, MAX, MIN, STDDEV, SUM, VARIANCE
getProcedureTerm: procedure
getSchemaTerm: schema
getSearchStringEscape: //
getSQLKeywords: ACCESS, ADD, ALTER, AUDIT, CLUSTER, COLUMN, COMMENT, COMPRESS, CONNECT, DATE, DROP, EXCLUSIVE, FILE, IDENTIFIED, IMMEDIATE, INCREMENT, INDEX, INITIAL, INTERSECT, LEVEL, LOCK, LONG, MAXEXTENTS, MINUS, MODE, NOAUDIT, NOCOMPRESS, NOWAIT, NUMBER, OFFLINE, ONLINE, PCTFREE, PRIOR, all_PL_SQL_resesved_words
getStringFunctions: CHR, INITCAP, LOWER, LPAD, LTRIM, NLS_INITCAP, NLS_LOWER, NLS_UPPER, REPLACE, RPAD, RTRIM, SOUNDEX, SUBSTR, SUBSTRB, TRANSLATE, UPPER, ASCII, INSTR, INSTRB, LENGTH, LENGTHB, NLSSORT, CHARTOROWID, CONVERT, HEXTORAW, RAWTOHEX, ROWIDTOCHAR, TO_CHAR, TO_DATE, TO_LABEL, TO_MULTI_BYTE, TO_NUMBER, TO_SINGLE_BYTE
getSystemFunctions: DUMP, GREATEST, GREATEST_LB, LEAST, LEAST_UB, NVL, UID, USER, USERENV, VSIZE
getTimeDateFunctions: ADD_MONTHS, LAST_DAY, MONTHS_BETWEEN, NEW_TIME, NEXT_DAY, ROUND, SYSDATE, TRUNC
getURL: jdbc:oracle:thin:@localhost:1521:mydb
getUserName: MYDB
isCatalogAtStart: false
isReadOnly: false
nullPlusNonNullIsNull       true
nullsAreSortedAtEnd          false
nullsAreSortedAtStart        false
nullsAreSortedHigh           false
nullsAreSortedLow            true
storesLowerCaseIdentifiers   false
storesLowerCaseQuotedIdentifiers false
storesMixedCaseIdentifiers   false
storesMixedCaseQuotedIdentifiers true
storesUpperCaseIdentifiers   true
storesUpperCaseQuotedIdentifiers false
supportsAlterTableWithAddColumn true
supportsAlterTableWithDropColumn false
supportsANSI92EntryLevelSQL   true
supportsANSI92FullSQL         false
supportsANSI92IntermediateSQL false
supportsBatchUpdates          true
supportsCatalogsInDataManipulation false
supportsCatalogsInIndexDefinitions false
supportsCatalogsInPrivilegeDefinitions false
supportsCatalogsInProcedureCalls false
supportsCatalogsInTableDefinitions false
supportsColumnAliasing        true
supportsConvert               true
supportsCoreSQLGrammar        true
supportsCorrelatedSubqueries  true
supportsDataDefinitionAndDataManipulationTransactionsOnly true
supportsDataManipulationTransactionsOnly true
supportsDifferentTableCorrelationNames true
supportsExpressionsInOrderBy  true
supportsExtendedSQLGrammar    true
supportsFullOuterJoins        true
supportsGroupBy               true
supportsGroupByBeyondSelect   true
supportsGroupByUnrelated      true
supportsIntegrityEnhancementFacility true
supportsLikeEscapeClause      true
supportsLimitedOuterJoins     true
supportsMinimumSQLGrammar     true
supportsMixedCaseIdentifiers  false
supportsMixedCaseQuotedIdentifiers true
supportsMultipleResultSets    false
supportsMultipleTransactions  true
supportsNonNullableColumns    true
supportsOpenCursorsAcrossCommit false
supportsOpenCursorsAcrossRollback false
supportsOpenStatementsAcrossCommit false
supportsOpenStatementsAcrossRollback false
supportsOrderByUnrelated    true
supportsOuterJoins          true
supportsPositionedDelete    true
supportsPositionedUpdate    true
supportsSchemasInDataManipulation true
supportsSchemasInIndexDefinitions true
supportsSchemasInPrivilegeDefinitions true
supportsSchemasInProcedureCalls true
supportsSchemasInTableDefinitions true
supportsSelectForUpdate     true
supportsStoredProcedures    true
supportsSubqueriesInComparisons true
supportsSubqueriesInExists  true
supportsSubqueriesInIns     true
supportsSubqueriesInQuantifieds true
supportsTableCorrelationNames true
supportsTransactions        true
supportsUnion               true
supportsUnionAll            true
usesLocalFilePerTable       false
usesLocalFiles              false

0: jdbc:oracle:thin:@localhost:1521:mydb>

describe

Name

describe — Describe a table

Synopsis

!describe [table name]

Description

Synonym for columns (if an argument is specified) or tables (if no argument is specified).

Example of "describe" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !describe EMPLOYEE

+-----------------+-------------+-----------------+---------+-----------------+
| TABLE_SCHEMA    | TABLE_NAME  | COLUMN_NAME     | DATA_TYPE| TYPE_NAME        |
+-----------------+-------------+-----------------+---------+-----------------+
| MYDB            | EMPLOYEE    | ID              | 3       | NUMBER           |
| MYDB            | EMPLOYEE    | FIRST_NAME      | 12      | VARCHAR2         |
| MYDB            | EMPLOYEE    | LAST_NAME       | 12      | VARCHAR2         |

Open Source Used In CKC - Time Series Data Engine 1.2.2.4  5524
dropall

Name
dropall — Drop all tables in the database

Synopsis
!dropall

Description
Drop every table in the database.

Example of "dropall" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !dropall

Really drop every table in the database? (y/n) y

1/5 DROP TABLE COMPANY;
2/5 DROP TABLE EMPLOYEE;
3/5 DROP TABLE PROJECTS;
4/5 DROP TABLE EMPLOYEE_PROJECTS;
5/5 DROP TABLE COMPANYEMPLOYEES;

Warning on using "dropall"

Warning
This command will destroy all data in the database (subject to access restrictions). Use with extreme caution.

exportedkeys

Name
exportedkeys — List exported foreign keys for a database

Synopsis
!exportedkeys [table name]
Description

List all the foreign keys that are exported by the specified table.

Example of "exportedkeys" command

0: jdbc:hsql:db-hypersonic> !exportedkeys COMPANY

+----------------+---------------+----------------+-------------+
| PKTABLE_SCHEM  | PKTABLE_NAME  | PKCOLUMN_NAME  | FKTABLE_CAT |
+----------------+---------------+----------------+-------------+
|                | COMPANY       | COMPANY_ID     |             |
+----------------+---------------+----------------+-------------+

0: jdbc:hsql:db-hypersonic>

go

Name

go — Change to a different active connection

Synopsis

!go {connection number}

Description

Switch to the specified connection.

Example of "go" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !list

2 active connections:
#0 open  jdbc:oracle:thin:@localhost:1521:mydb
#1 open  jdbc:mysql://localhost/mydb

0: jdbc:oracle:thin:@localhost:1521:mydb> !go 1

1: jdbc:mysql://localhost/mydb> !go 0

0: jdbc:oracle:thin:@localhost:1521:mydb>

help

Name
help — Display help information

Synopsis

!help

Description

Display information about allowed commands.

Example of "help" command

sqlline> !help

!all Execute the specified SQL against all the current connections
!autocommit Set autocommit mode on or off
!batch Start or execute a batch of statements
!brief Set verbose mode off
!close Close the current connection to the database
!columns List all the columns for the specified table
!commit Commit the current transaction (if autocommit is off)
!connect Open a new connection to the database.
!dbinfo Give metadata information about the database
!describe Describe a table
!dropall Drop all tables in the current database
!exportedkeys List all the exported keys for the specified table
!go Select the current connection
!help Print a summary of command usage
!history Display the command history
!importedkeys List all the imported keys for the specified table
!indexes List all the indexes for the specified table
!isolation Set the transaction isolation for this connection
!list List the current connections
!metadata Obtain metadata information
!outputformat Set the output format for displaying results
  (table, vertical, csv, tsv, xmlattrs, xmlelements)
!properties Connect to the database specified in the properties file(s)
!primarykeys List all the primary keys for the specified table
!procedures List all the procedures
!quit Exits the program
!reconnect Reconnect to the database
!record Record all output to the specified file
!rehash Fetch table and column names for command completion
!rollback Roll back the current transaction (if autocommit is off)
!run Run a script from the specified file
!save Save the current variables and aliases
!scan Scan for installed JDBC drivers
!script           Start saving a script to a file
!set              Set a sqlline variable
!sql              Execute a SQL command
!tables           List all the tables in the database
!verbose          Set verbose mode on

Comments, bug reports, and patches go to mwp1@cornell.edu

sqlline>

history

Name

history — Display the command history

Synopsis

!history

Description

Display the command history.

Example of "history" command

sqlline> !history

1.  !outputformat xmlelements
2.  SELECT * FROM PCPOINT;
3.  !outputformat vertical
4.  SELECT * FROM PCPOINT;
5.  !tables

sqlline>

importedkeys

Name

importedkeys — List imported foreign keys for a database

Synopsis

!importedkeys {table name}
Description

List all the foreign keys that are imported by the specified table.

Example of “importedkeys” command

0: jdbc:hsqldb:db-hypersonic> !importedkeys EMPLOYEE

| PKTABLE_SCHEM | PKTABLE_NAME | PKCOLUMN_NAME | FKTABLE_CAT |
|----------------+---------------+----------------+-------------|
|                | COMPANY       | COMPANY_ID     |             |
|----------------+---------------+----------------+-------------|

0: jdbc:hsqldb:db-hypersonic>

indexes

Name

indexes — Display indexes for a table

Synopsis

!indexes {table name}

Description

List all the indexes on the specified table name.

Example of “indexes” command

0: jdbc:oracle:thin:@localhost:1521:mydb> !indexes EMPLOYEE

<table>
<thead>
<tr>
<th>TABLE_NAME</th>
<th>NON_UNIQUE</th>
<th>INDEX_NAME</th>
<th>TYPE</th>
<th>COLUMN_NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMPLOYEE</td>
<td>0</td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>EMPLOYEE</td>
<td>0</td>
<td>SYS_C003115849</td>
<td>1</td>
<td>ID</td>
</tr>
<tr>
<td>EMPLOYEE</td>
<td>1</td>
<td>FIRST_NAME</td>
<td>1</td>
<td>FIRST_NAME</td>
</tr>
<tr>
<td>EMPLOYEE</td>
<td>1</td>
<td>LAST_NAME</td>
<td>1</td>
<td>LAST_NAME</td>
</tr>
</tbody>
</table>

0: jdbc:oracle:thin:@localhost:1521:mydb>

isolation

Name
isolation — Set the transaction isolation mode for the active connection

Synopsis

!isolation {isolation level}

Description

Set the isolation level for the current transaction. For a description of the different isolation levels, see http://java.sun.com/j2se/1.3/docs/api/java/sql/Connection.html#field_detail.

Example of "isolation" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !isolation TRANSACTION_READ_UNCOMMITTED
Error: READ_COMMITTED and SERIALIZABLE are the only valid transaction levels (state=,code=17030)

0: jdbc:oracle:thin:@localhost:1521:mydb> !isolation TRANSACTION_SERIALIZABLE

Transaction isolation: TRANSACTION_SERIALIZABLE

0: jdbc:oracle:thin:@localhost:1521:mydb>

list

Name

list — Display all active connections

Synopsis

!list

Description

List all the current connections.

Example of "list" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !list

2 active connections:
#0 open jdbc:oracle:thin:@localhost:1521:mydb
#1 open jdbc:mysql://localhost/mydb

0: jdbc:oracle:thin:@localhost:1521:mydb>
metadata

Name

metadata — Invoke arbitrary metadata commands

Synopsis

!metadata {methodname} {params...}

Description

Execute an arbitrary metadata method against the current connection. Parameters are separated by spaces. Use "" for a blank String, and null for a null parameter. For information on available metadata methods, see http://java.sun.com/j2se/1.3/docs/api/java/sql/DatabaseMetaData.html.

Example of "metadata" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !metadata supportsSelectForUpdate
true

0: jdbc:oracle:thin:@localhost:1521:mydb> !metadata getTypeInfo

+------------+------------+-------------+-----------------+-----------------+
| TYPE_NAME  | DATA_TYPE  | PRECISION   | LITERAL_PREFIX  | LITERAL_SUFFIX  |
+------------+------------+-------------+-----------------+-----------------+
| NUMBER     | -7         | 1           |                 |                 |
| NUMBER     | -6         | 3           |                 |                 |
| NUMBER     | -5         | 38          |                 |                 |
| LONG RAW   | -4         | 2147483647  | '               | '               |
| RAW        | -3         | 2000        | '               | '               |
| LONG       | -1         | 2147483647  | '               | '               |
| CHAR       | 1          | 2000        | '               | '               |
| NUMBER     | 2          | 38          |                 |                 |
| NUMBER     | 4          | 10          |                 |                 |
| NUMBER     | 5          | 5           |                 |                 |
| FLOAT      | 6          | 63          |                 |                 |
| REAL       | 7          | 63          |                 |                 |
| VARCHAR2   | 12         | 4000        | '               | '               |
| DATE       | 93         | 7           |                 |                 |
| STRUCT     | 2002       | 0           | '               | '               |
| ARRAY      | 2003       | 0           | '               | '               |
| BLOB       | 2004       | 4294967295  |                 |                 |
| CLOB       | 2005       | 4294967295  | '               | '               |
| REF        | 2006       | 0           | '               | '               |
+------------+------------+-------------+-----------------+-----------------+
outputformat

outputformat — Change the method for displaying SQL results

Synopsis

!outputformat {format name}

Description

Set the mode for displaying results from statements. This is useful for saving output from SQL statements to either a visually pleasing format or an easily parseable format.

Example of table output formatting

0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat table
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
+-------------+------------+
<table>
<thead>
<tr>
<th>COMPANY_ID</th>
<th>NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Apple</td>
</tr>
<tr>
<td>2</td>
<td>Sun</td>
</tr>
<tr>
<td>3</td>
<td>IBM</td>
</tr>
<tr>
<td>4</td>
<td>Microsoft</td>
</tr>
</tbody>
</table>
+-------------+------------+
4 rows selected (0.012 seconds)

Example of vertical output formatting

0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat vertical
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
COMPANY_ID  1
NAME        Apple
COMPANY_ID  2

NAME        Sun
COMPANY_ID  3

NAME        IBM
COMPANY_ID  4

NAME        Microsoft
COMPANY_ID  4

4 rows selected (0.011 seconds)

Example of CSV output formatting

0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat csv
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
'COMPANY_ID','NAME'
'1','Apple'
'2','Sun'
'3','IBM'
'4','Microsoft'
4 rows selected (0.012 seconds)

Example of TSV output formatting

0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat tsv
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
'COMPANY_ID'    'NAME'
'1'     'Apple'
'2'     'Sun'
'3'     'IBM'
'4'     'Microsoft'
4 rows selected (0.013 seconds)

Example of XML attribute output formatting

0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat xmlattr
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
<resultset>
  <result COMPANY_ID="1" NAME="Apple"/>
  <result COMPANY_ID="2" NAME="Sun"/>  
  <result COMPANY_ID="3" NAME="IBM"/>
  <result COMPANY_ID="4" NAME="Microsoft"/>
</resultset>
4 rows selected (0.012 seconds)

Example of XML element output formatting

0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat xmlattr
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
<resultset>
  <resultset>
    <result COMPANY_ID="1" NAME="Apple"/>
    <result COMPANY_ID="2" NAME="Sun"/>
    <result COMPANY_ID="3" NAME="IBM"/>
    <result COMPANY_ID="4" NAME="Microsoft"/>
  </resultset>
4 rows selected (0.012 seconds)
0: jdbc:oracle:thin:@localhost:1521:mydb> !outputformat xmlelements
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY
<resultset>
  <result>
    <COMPANY_ID>1</COMPANY_ID>
    <NAME>Apple</NAME>
  </result>
  <result>
    <COMPANY_ID>2</COMPANY_ID>
    <NAME>Sun</NAME>
  </result>
  <result>
    <COMPANY_ID>3</COMPANY_ID>
    <NAME>IBM</NAME>
  </result>
  <result>
    <COMPANY_ID>4</COMPANY_ID>
    <NAME>Microsoft</NAME>
  </result>
</resultset>
4 rows selected (0.02 seconds)
0: jdbc:oracle:thin:@localhost:1521:mydb>

primarykeys

Name

primarykeys — Display the primary key columns for a table

Synopsis

!primarykeys {table name}

Description

List all the primary keys for the specified table.

Example of "primarykeys" command

0: jdbc:hsqldb:db-hypersonic> !primarykeys COMPANY

+-----------------+---------------+-----------------+-----------+----------+
| TABLE_SCHEM  | TABLE_NAME  | COLUMN_NAME  | KEY_SEQ  | PK_N     |
+-----------------+---------------+-----------------+-----------+----------+
|               | COMPANY       | COMPANY_ID     | 1         | SYS_PK_C |
+-----------------+---------------+-----------------+-----------+----------+
procedures

Name

procedures — List stored procedures

Synopsis

!procedures [procedure name pattern]

Description

Display a list of all the stored procedures that are exposed by the current database.

Example of "procedures" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !procedures %JDBC%

+----------------+------------------+------------------+
| PROCEDURE_CAT  | PROCEDURE_SCHEM  | PROCEDURE_NAME   |
|----------------+------------------+------------------+
| WK_ADM         | WKSYS            | GET_JDBC_DRIVER  |
| WK_ADM         | WKSYS            | SET_JDBC_DRIVER  |
+----------------+------------------+------------------+

0: jdbc:oracle:thin:@localhost:1521:mydb>

properties

Name

properties — Connect to the database defined in the specified properties file.

Synopsis

!properties {file}

Description

Connect to the database defined in the specified properties file. The properties file is expected to have the following values:

url: the database URL to which to connect

driver: the driver class that handles the URL. If unspecified, SQLLine will automatically scan the CLASSPATH for an appropriate driver
user: the username to use to connect to the database. If unspecified, SQLLine will prompt for it.

password: the password to use to connect to the database. If unspecified, SQLLine will prompt for it.

The key names in the properties file can also use JDO semantics for the properties. These properties are "javax.jdo.option.ConnectionURL", "javax.jdo.option.ConnectionDriverName", "javax.jdo.option.ConnectionUserName", and "javax.jdo.option.ConnectionPassword". Furthermore, any properties that end with "ConnectionURL", "ConnectionDriverName", "ConnectionUserName", and "ConnectionPassword" will be used for the connection.

Example of "properties" command

sqlline> !properties test.properties

Connecting to jdbc:mysql://localhost/mydb

Enter password for jdbc:mysql://localhost/mydb: *****

Connected to: MySQL (version 3.23.52-log)
Driver: MySQL-AB JDBC Driver (version 3.0.8-stable ( $Date: 2008/12/10 $, $Revision: #3 $ ))
Autocommit status: true
Transaction isolation: TRANSACTION_READ_COMMITTED

0: jdbc:mysql://localhost/mydb>

quit

Name

quit — Exit SQLLine

Synopsis

!quit

Description

Exit SQLLine.

Example of "reconnect" command

0: jdbc:hsqldb:db-hypersonic> !quit

Closing: org.hsqldb.jdbcConnection

reconnect
Name

reconnect — Reconnect to the current database

Synopsis

!reconnect

Description

Reconnect to the current database.

Example of "reconnect" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !reconnect

Reconnecting to "jdbc:oracle:thin:@localhost:1521:mydb"

Closing: oracle.jdbc.driver.OracleConnection@4428d3

Connected to: Oracle (version Oracle9i Enterprise Edition Release 9.2.0.1.0 - Production
With the Partitioning, OLAP and Oracle Data Mining options
JServer Release 9.2.0.1.0 - Production)
Driver: Oracle JDBC driver (version 9.0.1.0.0)
Autocommit status: true

0: jdbc:oracle:thin:@localhost:1521:mydb>

record

Name

record — Begin recording all output from SQL commands

Synopsis

!record [file name]

Description

Save all output from the session to the specified file.

Example of "record" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !record /tmp/mysession.out

Saving all output to "/tmp/mysession.out". Enter "record" with no arguments to stop it.
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;
+-------------+------------+
| COMPANY_ID  |    NAME    |
+-------------+------------+
| 3           | IBM        |
| 4           | Microsoft  |
| 1           | Apple      |
| 2           | Sun        |
+-------------+------------+
4 rows selected (0.011 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb> !record

Recording stopped.

0: jdbc:oracle:thin:@localhost:1521:mydb>

rehash

Name

rehash — Obtain a list of all tables and columns from the database

Synopsis

!rehash

Description

Get a list of all tables and columns from the database in order to include them in the list for tab-completion of SQL statements. This is done automatically on connect when the fastconnect option is enabled.

Example of "rehash" command

0: jdbc:hsqldb:db-hypersonic> !rehash

Building list of tables and columns for tab-completion (set fastconnect to true to skip)... 7/7 (100%) Done

Done

0: jdbc:hsqldb:db-hypersonic>

Warning on using "rehash"

Caution

This operation can be extremely slow for some databases.
rollback

Name

rollback — Roll back the current transaction

Synopsis

!rollback

Description

Rollback the current transaction, if autocommit is off.

Example of "rollback" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !autocommit off

Autocommit status: false

0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;

+-------------+------------+
| COMPANY_ID  |    NAME    |
+-------------+------------+
| 3           | IBM        |
| 4           | Microsoft  |
| 1           | Apple      |
| 2           | Sun        |
+-------------+------------+
4 rows selected (0.011 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb> DELETE FROM COMPANY;

4 rows affected (0.004 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;

+-------------+-------+
| COMPANY_ID  | NAME  |
+-------------+-------+
|             |       |
|             |       |
+-------------+-------+
No rows selected (0.01 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb> !rollback

Rollback complete (0.016 seconds)
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM COMPANY;

+-------------+------------+
<table>
<thead>
<tr>
<th>COMPANY_ID</th>
<th>NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>IBM</td>
</tr>
<tr>
<td>4</td>
<td>Microsoft</td>
</tr>
<tr>
<td>1</td>
<td>Apple</td>
</tr>
<tr>
<td>2</td>
<td>Sun</td>
</tr>
</tbody>
</table>
+-------------+------------+
4 rows selected (0.01 seconds)

0: jdbc:oracle:thin:@localhost:1521:mydb>

run

Name

run — Execute a command script

Synopsis

!run {file name}

Description

Run the individual commands specified in the file name. The file should consist of individual SQL statements or SQLLine commands. Lines beginning with "#" are interpreted as comments and ignored. If any errors occur while running the script, the script will be aborted, unless the force preference is set to true.

Example of "run" command

0: jdbc:hsqldb:db-hypersonic> !run example.sql
1/11 CREATE TABLE COMPANY (COMPANY_ID INT, NAME VARCHAR(255));
No rows affected (0.001 seconds)
2/11 INSERT INTO COMPANY VALUES (1, 'Apple');
1 row affected (0 seconds)
3/11 INSERT INTO COMPANY VALUES (2, 'Sun');
1 row affected (0 seconds)
4/11 INSERT INTO COMPANY VALUES (3, 'IBM');
1 row affected (0.001 seconds)
5/11 INSERT INTO COMPANY VALUES (4, 'Microsoft');
1 row affected (0.015 seconds)
6/11 CREATE TABLE EMPLOYEE (ID INT, FIRST_NAME VARCHAR(255), LAST_NAME VARCHAR(255), COMPANY INT);
No rows affected (0.004 seconds)
7/11 CREATE INDEX FIRST_NAME ON EMPLOYEE(FIRST_NAME);
No rows affected (0 seconds)
8/11 CREATE INDEX LAST_NAME ON EMPLOYEE(LAST_NAME);
No rows affected (0.001 seconds)
9/11 ALTER TABLE EMPLOYEE ADD CONSTRAINT EMP_COMPANY FOREIGN KEY (COMPANY) REFERENCES COMPANY (COMPANY_ID);
No rows affected (0 seconds)
10/11 INSERT INTO EMPLOYEE (ID, FIRST_NAME, LAST_NAME, COMPANY) VALUES (234, 'William', 'Gates', 4);
1 row affected (0.001 seconds)
11/11 SELECT * FROM COMPANY,EMPLOYEE WHERE EMPLOYEE.COMPANY = COMPANY.COMPANY_ID;
+------------+-----------+--------------+-------------+------------+---------+
| COMPANY_ID |    NAME   | ID           | FIRST_NAME  | LAST_NAME  | COMPANY |
+------------+-----------+--------------+-------------+------------+---------+
| 4          | Microsoft | 234          | William     | Gates      | 4       |
+------------+-----------+--------------+-------------+------------+---------+
1 row selected (0.001 seconds)
0: jdbc:hsqldb:db-hypersonic>

save

Name

save — Save the current preferences

Synopsis

!save

Description

Save the current preferences.

Example of "save" command

0: jdbc:oracle:thin:@localhost:1521:mydb> !save

Saving preferences to: /Users/mprudhom/.sqlline/sqlline.properties

0: jdbc:oracle:thin:@localhost:1521:mydb>

scan

Name

scan — Scan class path for JDBC drivers
Synopsis

!scan

Description

Scans all the jar files in the CLASSPATH for any JDBC drivers, and prints the class names of the drivers.

Example of "scan" command

sqlline> !scan

35 driver classes found

<table>
<thead>
<tr>
<th>Compliant</th>
<th>Version</th>
<th>Driver Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>no</td>
<td>4.0</td>
<td>COM.cloudscape.core.JDBCDriver</td>
</tr>
<tr>
<td>no</td>
<td>1.0</td>
<td>COM.cloudscape.core.RmiJdbcDriver</td>
</tr>
<tr>
<td>yes</td>
<td>7.1</td>
<td>COM.ibm.db2.jdbc.net.DB2Driver</td>
</tr>
<tr>
<td>yes</td>
<td>3.2</td>
<td>com.ddtek.jdbc.db2.DB2Driver</td>
</tr>
<tr>
<td>yes</td>
<td>3.2</td>
<td>com.ddtek.jdbc.informix.InformixDriver</td>
</tr>
<tr>
<td>yes</td>
<td>3.2</td>
<td>com.ddtek.jdbc.oracle.OracleDriver</td>
</tr>
<tr>
<td>yes</td>
<td>3.2</td>
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<td>org.postgresql.Driver</td>
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yes 0.9 org.sourceforge.jxdbcon.JXDBConDriver

sqlline>

script

Name

script — Save executed commands to a file

Synopsis

!script [filename]

Description

Start saving all commands entered to the specified file. Once scripting on, it can be finished by entering the script command again with no arguments. Saved scripts can be re-run using the run command.

Example of "script" command

0: jdbc:hsqldb:db-hypersonic> !script /tmp/mysession.script

Saving command script to "/tmp/mysession.script". Enter "script" with no arguments to stop it.

0: jdbc:hsqldb:db-hypersonic> !autocommit off

Autocommit status: false

0: jdbc:hsqldb:db-hypersonic> SELECT * FROM COMPANY;

+-------------+------------+
| COMPANY_ID  |    NAME    |
+-------------+------------+
| 1           | Apple      |
| 2           | Sun        |
| 3           | IBM        |
| 4           | Microsoft  |
+-------------+------------+

4 rows selected (0.001 seconds)

0: jdbc:hsqldb:db-hypersonic> UPDATE COMPANY SET NAME='Apple, Inc.' WHERE NAME='Apple';

1 row affected (0.005 seconds)

0: jdbc:hsqldb:db-hypersonic> !commit

Commit complete (0 seconds)
set

Name

set — Set a preference

Synopsis

!set {preference} {value}

Description

Set the specified preference to the specified value. If autosave is on, then this will cause preferences to be immediately saved. Otherwise, changed setting can be saved for future SQLLine session eith the save command.

Example of "set" command

0: jdbc:hsqldb:db-hypersonic> !set color on

sql

Name

sql — Execute a SQL against a database

Synopsis

!sql {statement}

Description

Issue the specified SQL statement. This is equivalent to entering the statement by itself from the command line.

Example of "sql" command

0: jdbc:hsqldb:db-hypersonic> !sql DELETE FROM COMPANY;

4 rows affected (0.005 seconds)

0: jdbc:hsqldb:db-hypersonic>
tables

Name

tables — List all the tables in the database

Synopsis

!tables

Description

List all the tables in the database of the current connection.

Example of "tables" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> !tables

+------------+--------------+---------------------------------+-------------+
| TABLE_CAT  | TABLE_SCHEM  |           TABLE_NAME            | TABLE_TYPE  |
|            | MYDB         | COMPANY                         | TABLE       |
|            | MYDB         | EMPLOYEE                        | TABLE       |
+------------+--------------+---------------------------------+-------------+
0: jdbc:oracle:thin:@localhost:1521:mydb>
```

verbose

Name

verbose — Enable verbose output

Synopsis

!verbose

Description

Enable verbose mode, which causes stack traces to be printed when errors occur, and enabled outputting of debug information.

Example of "verbose" command

```
0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM BOGUS_TABLE;
Error: ORA-00942: table or view does not exist (state=42000,code=942)
```
0: jdbc:oracle:thin:@localhost:1521:mydb> !verbose

verbose: on

0: jdbc:oracle:thin:@localhost:1521:mydb> SELECT * FROM BOGUS_TABLE;

Error: ORA-00942: table or view does not exist (state=42000,code=942)
java.sql.SQLException: ORA-00942: table or view does not exist

    at oracle.jdbc.dbaccess.DBError.throwSqlException(DBError.java:180)
    at oracle.jdbc.ttc7.TTIoer.processError(TTIoer.java:208)
    at oracle.jdbc.ttc7.Oall7.receive(Oall7.java:543)
    at oracle.jdbc.ttc7.TTC7Protocol.doOall7(TTC7Protocol.java:1451)
    at oracle.jdbc.ttc7.TTC7Protocol.parseExecuteDescribe(TTC7Protocol.java:651)
    at oracle.jdbc.driver.OracleStatement.doExecuteQuery(OracleStatement.java:2110)
    at oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:2324)
    at oracle.jdbc.driver.OracleStatement.execute(OracleStatement.java:909)
    at sqlline.SqlLine$Commands.sql(SqlLine.java:3183)
    at sqlline.SqlLine.dispatch(SqlLine.java:771)
    at sqlline.SqlLine.begin(SqlLine.java:634)
    at sqlline.SqlLine.main(SqlLine.java:332)

0: jdbc:oracle:thin:@localhost:1521:mydb>

Parameter Reference

autocommit
autosave
color
fastconnect
force
headerinterval
historyfile
incremental
isolation
maxcolumnwidth
maxwidth
numberformat
outputformat
rowlimit
showheader
shownestederrs
starttime
showwarnings
silent
trimscripts
verbose
autocommit
If true, then new connections will have autocommit set, otherwise, transactions will need to be explicitly committed or rolled back. Defaults to true. To change the autocommit status for a connection that is already open and active, use the autocommit command instead.

autosave

When set to true, any changes to preferences using the set command will cause the preferences to be saved. Otherwise, preferences will need to be explicitly saved using the save command. Defaults to false.

color

If true, then output to the terminal will use color for a more pleasing visual experience. Requires that the terminal support ANSI control codes (most do). Defaults to false.

fastconnect

When false, any new connection will cause SQLLine to access information about the available tables and columns in order to provide them as candidates for tab-completion. This can be a very slow operation for some databases, do by default it is off. Table and column information can always be explicitly retrieved using the rehash command.

force

When set to false, any failures during the execution of the run or record commands will cause execution to abort, preventing the execution of subsequent commands. When set to true, errors will be displayed but otherwise ignored. Defaults to false.

headerinterval

The interval between which the column headers will be redisplayed when using the "table" outputformat. Defaults to 100.

historyfile

The file to which SQLLine will save a record of all the commands issued. Defaults to HOME/sqlline/history on Windows, and HOME/.sqlline/history on all other platforms.

incremental

When set to false, the entire result set is fetched and buffered before being displayed, yielding optimal display column sizing. When set to true, result rows are displayed immediately as they are fetched, yielding lower latency and memory usage at the price of extra display column padding. Defaults to false.

isolation

The default transaction isolation that will be used for new connections. To change the isolation level of the currently active connection, use the isolation command instead.
maxcolumnwidth

The maximum column width to display for each column before truncating data when using the "table" output format. Defaults to 15.

maxwidth

The maximum width to display before truncating data when using the "table" output format. Defaults to attempting to query the terminal for the current width, falls back to 80.

numberformat

The format for how numeric values are displayed. Setting to default causes numeric values to be fetched and rendered via ResultSet.getString. Any other setting results in fetch via ResultSet.getObject and rendering via java.text.DecimalFormat. For example, the setting "0.###E0" yields scientific notation with up to three fractional digits.

outputformat

The format for how results are displayed. For details, see the information on the outputformat command.

rowlimit

The maximum number of rows to fetch per query. Defaults to 0, which is interpreted as fetching all rows.

showheader

If true, display the names of the columns when displaying results. Defaults to true.

shownestederrs

If true, display any nested errors that are reported on the connection after issuing any database commands. Defaults to false, meaning only the topmost error is displayed.

showtime

If true, display execution time for database commands when in verbose mode. Defaults to true.

showwarnings

If true, display any warnings that are reported on the connection after issuing any database commands. Defaults to true.

silent

If true, then reduce the amount of informational messages displayed. Useful for redirecting a sqlline command to a file for later parsing. Defaults to false.
trimscripts

If true, then trim leading and trailing whitespace from lines as they are processed in scripts; otherwise, preserve whitespace. Defaults to true.

verbose

If true, then print out the entire java stack trace whenever an error occurs, as well as displaying debugging information. Defaults to false.

JDBC Driver Support

Project Information

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1031989713_1591844932.81/0/sqlline-1-3-0-sources-jar/sqlline/manual.txt

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parseFileQ(Lorg/jvnet/licensetool/file/FileWrapper;)Lorg/jvnet/licensetool/file/ParsedFile;file(Lorg/jvnet/licensetool/file/FileWrapper;)
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Built-By: hudson
Build-Jdk: 1.5.0_06

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package com.sun.jersey.impl.json;

import java.util.LinkedList;
import java.util.List;
import javax.xml.bind.annotation.XmlRootElement;

@XmlRootElement
public class Permission {
    public Integer id;
    public List<Permission> children;          // optional, holds the children permission of this one

    public static Permission getRootPermision() {
        Permission result = new Permission();
        result.id = 7;
        result.children = new LinkedList<Permission>(){
            @Override
            public Iterator<Permission> iterator() {
                return new Iterator<Permission>() {
                    @Override
                    public boolean hasNext() {
                        return false;
                    }
                    @Override
                    public Permission next() {
                        return null;
                    }
                    @Override
                    public void remove() {
                        throw new UnsupportedOperationException();
                    }
                };
            }
        };
        result.children.add(getChildPermission());
        return result;
    }

    public static Permission getChildPermission() {
        Permission result = new Permission();
        result.id = 8;
        result.children = new LinkedList<Permission>(){
            @Override
            public Iterator<Permission> iterator() {
                return new Iterator<Permission>() {
                    @Override
                    public boolean hasNext() {
                        return false;
                    }
                    @Override
                    public Permission next() {
                        return null;
                    }
                    @Override
                    public void remove() {
                        throw new UnsupportedOperationException();
                    }
                };
            }
        };
        result.children.add(get2ndLevelChildPermission());
        return result;
    }

    public static Permission get2ndLevelChildPermission() {
        Permission result = new Permission();
        result.id = 9;
        return result;
    }

    public Integer id;
    public List<Permission> children;          // optional, holds the children permission of this one

    private static final long serialVersionUID = 76220910029210915L;
}

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</ol>
</div><p>(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)</p>
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<p>A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License. </p>

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. <a href="#lgpl-2-6" title="Section 6">Section 6</a> states terms for distribution of such executables. </p>

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law. </p>

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under <a href="#lgpl-2-6" title="Section 6">Section 6</a>). </p>

Otherwise, if the work is a derivative of the Library, you may
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- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under <a href="#lgpl-2-1" title="Section 1">Sections 1</a> and <a href="#lgpl-2-2" title="Section 2">2</a> above); and, if the work is an executable linked with the Library, with the complete machine-readable &amp;#8220;work that uses the Library&amp;#8221;, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- Accompany the work with a written offer, valid for at least three years, to give the same user the materials...
specified in <a href="#lgpl-2-6-a">Subsection 6a</a>, above, for a charge no more than the cost of performing this distribution.</p></li><p>If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.</p></li><p>Verify that the user has already received a copy of these materials or that you have already sent this user a copy.</p></ol></div><p>For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.</p><p>It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.</p><div class="section lang="en""><div class="titlepage">
<div>
<div><h3 class="title" id="lgpl-2-7">Section 7</h3></div>
</div>
</div>
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<ol type="a">
<li><p>Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.</p></li>
<li><p>Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining
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Section 11

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signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>org.jvnet.licensetool</groupId>
  <artifactId>license-tool</artifactId>
  <packaging>jar</packaging>
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        </configuration>
      </plugin>
    </plugins>
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</configuration>
</plugin>
<!-- modifies the license header -->
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  <artifactId>maven-surefire-plugin</artifactId>
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</plugin>
<!-- validate the correctness of the license header -->
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</dependencies>
</project>

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SignaturexLorg/jvnet/licensetool/generic/UnaryFunction<Ljava/lang/reflect/Method;Lorg/jvnet/licensetool/argparser/
ElementParser;>:describe()Ljava/lang/String;:<cinit>()VCodeLineNumberTableLjava/lang/Object;Lorg/jvnet/licenses
tool/generic/UnaryFunction<Ljava/lang/String;Ljava/lang/Object;>;>:
SourceFileElementParser.java/org/jvnet/licensetool/argparser/ElementParserS1InnerClasses-
org/jvnet/licensetool/argparser/ElementParserjava/lang/Object+org/jvnet/licensetool/generic/UnaryFunction<init>

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ResultDataInnerClasses>Lorg/jvnet/licensetool/argparser/ElementParser ImplSResultData;thisS03Lorg/jvnet/licensetool/argparser/ElementParser ImplS;:<init>(Lorg/jvnet/licensetool/argparser/ElementParser ImplLjava/lang/String;Ljav
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SourceFileElementParserImpl.javaEnclosingMethodKLMPQRSTU+org/jvnet/licensetool/generic/UnaryFunction
#YWjava/lang/String;S3org/jvnet/licensetool/argparser/ElementParser ImplS1java/lang/Object<org/jvnet/licensetool/argparser/ElementParser ImplSResultData1org/jvnet/licensetool/argparser/ElementParser ImplgetDataZ(Ljava/lang/reflect/Method;Lorg/jvnet/licensetool/argparser/ElementParser ImplSResultData;P)Ljava/lang/Object;&(Ljava/lang/Object;L.
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B
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Open Source Used In CKC - Time Series Data Engine 1.2.2.4

java/util/Iterator hasNext() Znext()Ljava/lang/Object; hasTags([Ljava/lang/String;)Z remove,(Lorg/jvnet/licensetool/file/CommentBlock;)V hasTag(java/lang/String;)Z comment#org/jvnet/licensetool/util/ToolUtil areCommentsEqual'(Ljava/lang/String;Ljava/lang/String;);Z write printStackTrace org/jvnet/licensetool/Scanner */

4569<=3Rp*+=*Y+
/+*Y+
/+*Y+:*YSYS)*Y+
+F* b*Y+
/+*++1*Y”+
/+*++3:*V%+
&
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OgUhijklmno
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rstuvAwdata.java/util/Map valsdefaultDatathis$0+Lorg/jvnet/licensetool/argparser/ArgParser;<init>L(Lorg/jvnet/licensetool/argparser/ArgParser;Ljava/util/Map;)VCodeLineNumberTableLocalVariableTablethisInnerClasses-Lorg/jvnet/licensetool/argparser/ArgParser$1;LocalVariableTypeTable-

Lorg/jvnet/licensetool/argparser/ArgParser.1;getValue&(Ljava/lang/String;)Ljava/lang/Object;keywordLjava/lang/String;resultLjava/lang/Object;

getString&(Ljava/lang/Object;)Ljava/lang/String;getLength(Ljava/lang/Object;)I'(Ljava/lang/Object;I)Ljava/lang/Object;()Ljava/lang/String;java/lang/reflect/Method

getNameequals(Ljava/lang/Object;)Z

access$000<(Lorg/jvnet/licensetool/argparser/ArgParser;)Ljava/util/Map/keySet(Ljava/util/Map;Ljava/util/Set;
java/util/HeritageIterator)(Ljava/util/Iterator;java/util/Iterator hasNextNext(Ljava/lang/Object;)

}"#$%&'|)P++.*,*-**+/0,123)x+M,+M,+Imno+./45670,189/)+M,NYNY-

W6+

W+:-W-W-+*6
Exceptions
readAsString(InputStream inputStream, OutputStream outputStream) throws IOException {  
    if (inputStream == null) {  
        throw new NullPointerException();  
    }  
    if (outputStream == null) {  
        throw new NullPointerException();  
    }  
    // Read data from the input stream and write it to the output stream  
    // Perform any necessary conversions or manipulations  
    // Close resources when done  
}
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SourceFileArgParser.java(sowCDjava/lang/StringBuilderEFG is not an interfaceHjkjava/util/HashMapnoIJKLMNO-  
org/jvnet/licensetool/argparser/ElementParserPQR.org/jvnet/licensetool/argparser/DefaultValueSTUMethod ( does 
not have a DefaultValue 
annotationV$org/jvnet/licensetool/argparser/HelpqoWXYD[Z]\^.]java/util/Collection_.\abDcd  
Legal arguments are:

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(default)

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parameterssftjava/util/MappEntryud is not a valid keyworddwxxyz!No argument supplied for keyword
+org/jvnet/licensetool/argparser/ArgParser$1w {java/lang/Class|}~O)org/jvnet/licensetool/ArgParser$ArgParser exposes
PrimaryColorisInterface()ZgetNameappend-(Ljava/lang/String;);Ljava/lang/StringBuilder;toString
getMethods()Ljava/lang/reflect/Method;factory-
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substring(I)Ljava/lang/String;Ljava/lang/ClassLoaderjava/lang/ClassLoader;Ljava/util/Map;Ljava/util/Map;VgetCl
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)

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Open Source Used In CKC - Time Series Data Engine 1.2.2.4 5649
**Open Source Used In CKC - Time Series Data Engine 1.2.2.4**

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_z.UV
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fYghYi@JS
12```

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1.631 jakarta-ws-rs-api 2.1.6
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* Project home: https://projects.eclipse.org/projects/ee4j.jaxrs

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The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xd/datetime/CalendarFormatter.java
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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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1.645 curator-framework 2.12.0

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* /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/ASNotationDeclaration.java
* /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/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
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* /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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 */

/**
 * 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
 */
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java

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 */

/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
 *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 *   <code>LSParser</code> that is created will operate in synchronous
 *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 *   <code>LSParser</code> 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 <code>Document</code> using the
 *   newly created <code>LSParser</code>. Note that no lexical checking
 *   is done on the absolute URI. In order to create a
 *   <code>LSParser</code> for any kind of schema types (i.e. the
 *   LSParser will be free to use any schema found), use the value
 *   <code>null</code>.
 *   , applications must use the value
 *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href="http://www.w3.org/TR/2000/REC-xml-20001006">XML 1.0</a>],
 *   applications must use the value
 *   <code>"http://www.w3.org/TR/REC-xml"</code>. 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 `<code>LSParser</code>` object. This
* `<code>LSParser</code>` is either synchronous or asynchronous
* depending on the value of the `<code>mode</code>` argument.
* `<p>`<b>Note:</b> By default, the newly created `<code>LSParser</code>`
* does not contain a `<code>DOMErrorHandler</code>`, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>
* error-handler</a>" configuration parameter is `<code>null</code>`. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the `<code>"error-handler"</code> configuration
* parameter on the new created `<code>LSParser</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.
*/

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

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl(xs/XSDElementTraverser.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMStringListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLImageElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSModelImpl.java
* /opt/ cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/ShortList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/IdentityErrorList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/identity/XPathMatcher.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLHeadElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/ObjectList.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/jaxp/validation/ReadOnlyGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom/DOMErrorImpl.java
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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/SizeClassesMetric.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/LongLongHashMap.java

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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/LongPriorityQueue.java
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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
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* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
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  jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
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  jar/io/netty/buffer/PoolSubpageMetric.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
  jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
* /opt/cola/permits/1258617860_1643096334.39/0/netty-buffer-4-1-71-final-sources-
  jar/io/netty/buffer/PoolChunkListMetric.java
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1.650 batik-i18n 1.10

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1.651 nimbus-jose-jwt 4.41.2

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  jar/org/apache/twill/zookeeper/AbstractZKClient.java
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  jar/org/apache/twill/zookeeper/ACLData.java
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1.653 java-xmlbuilder 0.4

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1.656 curator-framework 2.13.0

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1.659 hbase-replication 2.1.0-cdh6.3.0

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guarantee element specifies that the communication between client and server should be NONE, INTEGRAL, or CONFIDENTIAL. NONE means that the application does not require any transport guarantees. A value of INTEGRAL means that the application requires that the data sent between the client and server be sent in such a way that it can't be changed in transit. CONFIDENTIAL means that the application requires that the data be transmitted in a fashion that prevents other entities from observing the contents of the transmission. In most cases, the presence of the INTEGRAL or CONFIDENTIAL flag will indicate that the use of SSL is required.

Found in path(s):
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/web-app_2_2.dtd
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Found in path(s):
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/jsp/resources/jspxml_2_0.dtd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/jsp/resources/jspxml_2_0.xsd
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It is provided as a convenience in building your own catalog files.

Found in path(s):
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/catalog.xml

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CONFIGIDENTIAL. NONE means that the application does not changed in transit. CONFIDENTIAL means that the application CONFIDENTIAL flag will indicate that the use of SSL is

<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/javax/servlet/resources/web-
common_3_1.xsd

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CONFIGIDENTIAL. NONE means that the application does not
CONFIDENTIAL means that the application CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/java/servlet/resources/web-app_2_4.xsd
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Found in path(s):
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/java/servlet/resources/web-app_3_1.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/java/servlet/jsp/resources/jsp_2_3.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/java/servlet/resources/web-fragment_3_1.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/java/servlet/resources/javaee_web_services_client_1_4.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/java/servlet/resources/javaee_web_services_1_4.xsd
* /opt/cola/permits/1272432664_1645007153.34/0/jetty-schemas-3-1-sources-jar/java/servlet/resources/permissions_7.xsd

1.662 kotlin 1.3.71
1.662.1 Available under license :
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{"version":3,"file":"kotlin.js","sources":["wrapper.js","arrayUtils.js","callableReferenceUtils.js","conversions.js","core.js","long.js","markerFunctions.js","misc.js","polyfills.js","rtti.js","arrayUtils.kt","runtime/Enum.kt","primitive CompanionObjects.kt","generated/_Arrays.kt","generated/_Ranges.kt","kotlin/UByte.kt","kotlin/UInt.kt","kotlin/ULong.kt","Ranges.kt","collections/Collections.kt","collections/Maps.kt","collections/Sequences.kt","text/StringNumberConversions.kt","kotlin/UnsignedUtils.kt","collections/Iterables.kt","collections/Sequences.kt","util/Preconditions.kt","generated/_ArraysJs.kt","comparisons/Comparisons.kt","kotlin/Comparator.kt","util/Standard.kt","generated/_ComparisonsJs.kt","generated/_Collections.kt","kotlin/collections.kt","collections/Iterators.kt","generated/_Comparisons.kt","generated/_Maps.kt","generated/_Sequences.kt","generated/_Sets.kt","generated/_Strings.kt","text/Strings.kt","kotlin/text/iterator.kt","kotlin/UBYTEArray.kt","kotlin/UIntArray.kt","kotlin/ULONGArray.kt","kotlin/ULONG.kt","kotlin/U
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2147483647: \n if (a < -2147483648) return -2147483648;
    if (a == null) return a;
    if (a instanceof Kotlin.BoxedChar) return a;
 return new Kotlin.BoxedChar(a);
  }

Kotlin.unboxChar = function(a) {
    if (a == null) return a;
    if (a instanceof Kotlin.BoxedChar) return a;
    return new Kotlin.BoxedChar(a);
};

Kotlin.equals = function (obj1, obj2) {
    if (obj1 == null) {
        return obj2 == null;
    }

    if (obj2 == null) {
        return false;
    }

    if (obj1 !== obj1) {
        return obj2 !== obj2;
    }

    if (typeof obj1 === "object" && typeof obj1.equals === "function") {
        return obj1.equals(obj2);
    }

    if (typeof obj1 === "number" && typeof obj2 === "number") {
        return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2);
    }

    return var objType = obj1.constructor;
    if (objType === obj2.constructor) {
        return typeof obj1 === "function" ? obj1 === obj2 : obj1 === obj2;
    }

    return obj1 === obj2;
};

Kotlin.hashCode = function (obj) {
    if (obj == null) {
        return 0;
    }
    var objType = typeof obj;
    if ("object" === objType) {
        return "function" === typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);
    }
    if ("function" === objType) {
        return getObjectHashCode(obj);
    }
    if ("number" === objType) {
        return Kotlin.numberHashCode(obj);
    }
    if ("boolean" === objType) {
        return obj.valueOf();
    }
    if ("string" === objType) {
        return getStringHashCode(obj);
    }
    if ("symbol" === objType) {
        return hash(*___objHashCode(obj), hash); // @private
    }
    return hash(*___objHashCode(obj), hash); // @private
};

Kotlin.toString = function (o) {
    if (o == null) {
        return "null";
    }
    else if (Kotlin.isArrayish(o)) {
        return "[...]
    }
    else {
        return o.toString();
    }
};

/**
 * Constructs a 64-bit two's-complement integer, given its low and high 32-bit
 * values as *signed* integers.  See the from* functions below for more
 * convenient ways of constructing Longs.
 *
 * The internal representation of a long is the two given signed, 32-bit
 * values. We use 32-bit pieces because these are the size of integers on which
 * Javascript performs bit-
 * operations. For operations like addition and multiplication, we split each number into 16-bit pieces, which can
 * easily be multiplied within Javascript's floating-point representation without overflow
 * or change in sign.
 * * In the algorithms below, we frequently reduce the negative case to the positive case by negating the
 * input(s) and then post-processing the result. * Note that we must ALWAYS check specially whether those values
 * are MIN_VALUE * (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as a
 * positive number, it overflows back into a negative). Not handling this case would often result in infinite
 * recursion. * We use 32-bit pieces because these are the size of integers on which Javascript performs bit-
 * operations. For operations like addition and multiplication, we split each number into 16-bit pieces, which can
 * easily be multiplied within Javascript's floating-point representation without overflow
 * or change in sign.
 * * In the algorithms below, we frequently reduce the negative case to the positive case by negating the
 * input(s) and then post-processing the result. * Note that we must ALWAYS check specially whether those values
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 * positive number, it overflows back into a negative). Not handling this case would often result in infinite
 * recursion. * We use 32-bit pieces because these are the size of integers on which Javascript performs bit-
 * operations. For operations like addition and multiplication, we split each number into 16-bit pieces, which can
 * easily be multiplied within Javascript's floating-point representation without overflow
 * or change in sign.


```javascript
/**
 * Returns a Long representing the given (32-bit) integer value.
 * @param {number} value The 32-bit integer in question.
 * @return {!Kotlin.Long} The corresponding Long value.
 */
Kotlin.Long.fromInt = function(value) {
  if (-128 <= value && value < 128) {
    var cachedObj = Kotlin.Long.IntCache_[value];
    if (cachedObj) {
      return cachedObj;
    }
  }
  var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);
  if (-128 <= value && value < 128) {
  }
  return obj;
};

/**
 * Converts this number value to 'Long'.
 * @param {number} value The number in question.
 * @return {!Kotlin.Long} The corresponding Long value.
 */
Kotlin.Long.fromNumber = function(value) {
  if (isNaN(value)) {
    return Kotlin.Long.ZERO;
  } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MIN_VALUE;
  } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MAX_VALUE;
  } else if (value < 0) {
    return Kotlin.Long.fromNumber(-value).negate();
  } else {
    return Kotlin.Long.fromBits(value, value);
  }
};

/**
 * Returns a Long representation of the given string, written using the given
 * radix.
 * @param {string} str The textual representation of the Long.
 * @param {number=} opt_radix The radix in which the text is written.
 * @return {!Kotlin.Long} The corresponding Long value.
 */
Kotlin.Long.fromString = function(str, opt_radix) {
  if (str.length == 0) {
    throw Error('number format error: empty string');
  }
  var radix = opt_radix || 10;
  if (radix < 2 || 36 < radix) {
    throw Error('radix out of range: ' + radix);
  }
  if (str.charAt(0) == '-') {
    return Kotlin.Long.fromString(str.substring(1), radix).negate();
  }
  var result = Kotlin.Long.ZERO;
  for (var i = 0; i < str.length; i += 8) {
    var size = Math.min(8, str.length - i);
    var value = parseInt(str.substring(i, i + size), radix);
    if (size < 8) {
      var power = Kotlin.Long.fromNumber(Math.pow(radix, size));
      result = result.multiply(power).add(Kotlin.Long.fromNumber(value));
    } else {
      result = result.multiply(Kotlin.Long.TWO_PWR_48_DBL_);
      result = result.add(Kotlin.Long.fromNumber(value));
    }
  }
  return result;
};

// NOTE: the compiler should inline these constant values below and then remove
// these variables, so there should be no runtime penalty for these;
Kotlin.Long.ZERO = Kotlin.Long.fromInt(0);
Kotlin.Long.ONE = Kotlin.Long.fromInt(1);
Kotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);
Kotlin.Long.MAX_VALUE = new Kotlin.Long(0, 1);
```

Kotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);

Kotlin.Long.TWO_PWR_24 = Kotlin.Long.fromInt(1 << 24);

Kotlin.Long.prototype.toInt = function() {
  return this.low_;
}

Kotlin.Long.prototype.toNumber = function() {
  return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +
  this.getLowBitsUnsigned();
}

this.getLongBitsUnsigned();

Kotlin.Long.prototype.hashCode = function() {
  return this.high_ ^ this.low_;
}

Kotlin.Long.prototype.toString = function(opt_radix) {
  var radix = opt_radix || 10;
  if (radix < 2 || 36 < radix) {
    throw Error('radix out of range: ' + radix);
  }

  if (this.isZero()) {
    return '0';
  }

  if (this.isNegative()) {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return '-0';
    } else {
      return '-' + this.negate().toString(radix);
    }
  }

  var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 6));

  var rem = this;
  var result = '';
  while (true) {
    var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();
    var digits = intval.toString(radix);

    rem = remDiv;
    if (rem.isZero()) {
      return digits + result;
    } else {
      while (digits.length < 6) {
        digits = '0' + digits;
      }
      result = '' + digits + result;
    }
  }
}

Kotlin.Long.prototype.equalsLong = function(other) {
  return (this.high_ == other.high_) && (this.low_ == other.low_);
}

Kotlin.Long.prototype.lessThan = function(other) {
  return this.compare(other) < 0;
}

Kotlin.Long.prototype.greaterThan = function(other) {
  return this.compare(other) > 0;
}

Kotlin.Long.prototype.lessThanOrEqual = function(other) {
  return this.compare(other) <= 0;
}

Kotlin.Long.prototype.greaterThanOrEqual = function(other) {
  return this.compare(other) >= 0;
}

Kotlin.Long.prototype.notEqualsLong = function(other) {
  return this.compare(other) != 0;
}

Kotlin.Long.prototype.isOdd = function() {
  return this.low_ & 1 == 1;
}

Kotlin.Long.prototype.isEven = function() {
  return this.low_ & 1 == 0;
}

Kotlin.Long.prototype.isZero = function() {
  return this.high_ == 0 && this.low_ == 0;
}

Kotlin.Long.prototype.isNegative = function() {
  return this.high_ < 0;
}

Kotlin.Long.prototype.isOdd = function() {
  return this.low_ & 1 == 1;
}

Kotlin.Long.prototype.isEven = function() {
  return this.low_ & 1 == 0;
}

Kotlin.Long.prototype.isZero = function() {
  return this.high_ == 0 && this.low_ == 0;
}

Kotlin.Long.prototype.isNegative = function() {
  return this.high_ < 0;
}

Kotlin.Long.prototype.equalsLong = function(other) {
  return this.high_ == other.high_ && this.low_ == other.low_;
}

Kotlin.Long.prototype.notEqualsLong = function(other) {
  return this.high_ != other.high_ || this.low_ != other.low_;
}

Kotlin.Long.prototype.lessThan = function(other) {
  return this.compare(other) < 0;
}

Kotlin.Long.prototype.greaterThan = function(other) {
  return this.compare(other) > 0;
}

Kotlin.Long.prototype.lessThanOrEqual = function(other) {
  return this.compare(other) <= 0;
}

Kotlin.Long.prototype.greaterThanOrEqual = function(other) {
  return this.compare(other) >= 0;
}

Kotlin.Long.prototype.notEqualsLong = function(other) {
  return this.compare(other) != 0;
}
this.compare(other) >= 0;}

/**
 * Compares this Long with the given one.
 * @param {Kotlin.Long} other Long to compare against.
 * @return {number} 0 if they are the same, 1 if this is greater, and -1 if this
 *     is smaller.
 */
Kotlin.Long.prototype.compare = function(other) {
  if (this.equalsLong(other)) {
    return 0;
  }

  var thisNeg = this.isNegative();
  var otherNeg = other.isNegative();
  if (thisNeg && !otherNeg) {
    return -1;
  }
  if (!thisNeg && otherNeg) {
    return 1;
  }

  // at this point, the signs are the same, so subtraction will not overflow
  if (this.subtract(other).isNegative()) {
    return -1;
  } else {
    return 1;
  }


/** @return {!Kotlin.Long} The negation of this value.
 */
Kotlin.Long.prototype.negate = function() {
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return Kotlin.Long.ZERO;
  } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return this.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;
  }

  if (this.isNegative()) {
    if (other.isNegative()) {
      return this.negate().multiply(other.negate());
    } else {
      return this.negate().multiply(other).negate();
    }
  } else if (other.isNegative()) {
    return this.multiply(other.negate()).negate();
  }

  // If both longs are small, use float multiplication
  if (this.lessThan(Kotlin.Long.TWO_PWR_24_)) {
    return Kotlin.Long.ZERO;
  }

  // Divide each number into 4 chunks of 16 bits, and then add up 4x4 products.
  // We can skip products that would overflow.
  var a48 = this.high_ >>> 16;
  var a32 = this.high_ & 0xFFFF;
  var a16 = this.low_ >>> 16;
  var a00 = this.low_ & 0xFFFF;

  var b48 = other.high_ >>> 16;
  var b32 = other.high_ & 0xFFFF;
  var b16 = other.low_ >>> 16;
  var b00 = other.low_ & 0xFFFF;

  var c48 = 0, c32 = 0, c16 = 0, c00 = 0;
  c00 += a00 * b00;
  c16 += c00 >>> 16;
  c00 &= 0xFFFF;
  c16 += a16 + b16;
  c32 += c16 >>> 16;
  c16 &= 0xFFFF;
  c32 += a32 + b32;
  c48 += c32 >>> 16;
  c32 &= 0xFFFF;
  c48 += a48 + b48;
  c48 &= 0xFFFF;

  return Kotlin.Long.fromBits(c16 << 16) | c00, (c48 << 16) | c32);
}

/** @return {!Kotlin.Long} The difference of this and the given Long.
 */
Kotlin.Long.prototype.subtract = function(other) {
  return this.add(other.negate());
}

/**
 * Returns the product of this and the given Long.
 * @param {Kotlin.Long} other Long to multiply with this.
 * @return {Kotlin.Long} The product of this and the other.
 */
Kotlin.Long.prototype.multiply = function(other) {
  if (this.isZero()) {
    return Kotlin.Long.ZERO;
  } else if (other.isZero()) {
    return Kotlin.Long.ZERO;
  }

  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    if (other.equalsLong(Kotlin.Long.ONE) ||
     other.equalsLong(Kotlin.Long.NEG_ONE)) {
      return Kotlin.Long.MIN_VALUE;  // recall that -MIN_VALUE == MIN_VALUE
    } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return Kotlin.Long.ZERO;
    }
  }

  // At this point, we have other >= 2, so [this/other] < [MIN_VALUE].
  // var halfThis =
  // this.shiftRight(1);
  var approx = halfThis.multiply(other).shiftLeft(1);
  if (approx.equalsLong(Kotlin.Long.ZERO)) {
    return other.isNegative() ? Kotlin.Long.ONE :
  } else {
    var a48 = this.high_ >>> 16;
    var a32 = this.high_ & 0xFFFF;
    var a16 = this.low_ >>> 16;
    var a00 = this.low_ & 0xFFFF;

    var b48 = other.high_ >>> 16;
    var b32 = other.high_ & 0xFFFF;
    var b16 = other.low_ >>> 16;
    var b00 = other.low_ & 0xFFFF;

    var c48 = 0, c32 = 0, c16 = 0, c00 = 0;
    c00 += a00 * b00;
    c16 += c00 >>> 16;
    c00 &= 0xFFFF;
    c16 += a16 + b16;
    c32 += c16 >>> 16;
    c16 &= 0xFFFF;
    c32 += a32 + b32;
    c48 += c32 >>> 16;
    c32 &= 0xFFFF;
    c48 += a48 + b48;
    c48 &= 0xFFFF;

    return Kotlin.Long.fromBits(c16 << 16) | c00, (c48 << 16) | c32);
}

/** @return {number} The remainder of this divided by the given Long.
 */
Kotlin.Long.prototype.mod = function(other) {
  if (other.isZero()) {
    throw Error('division by zero');
  }

  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    if (other.equalsLong(Kotlin.Long.ONE) ||
     other.equalsLong(Kotlin.Long.NEG_ONE)) {
      return Kotlin.Long.MIN_VALUE;  // recall that -MIN_VALUE == MIN_VALUE
    } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return Kotlin.Long.ZERO;
    }

    // At this point, we have other >= 2, so [this/other] < [MIN_VALUE].
    // var halfThis =
    // this.shiftRight(1);
    var approx = halfThis.multiply(other).shiftLeft(1);
    if (approx.equalsLong(Kotlin.Long.ZERO)) {
      return other.isNegative() ? Kotlin.Long.ONE :
    } else {
      var a48 = this.high_ >>> 16;
      var a32 = this.high_ & 0xFFFF;
      var a16 = this.low_ >>> 16;
      var a00 = this.low_ & 0xFFFF;

      var b48 = other.high_ >>> 16;
      var b32 = other.high_ & 0xFFFF;
      var b16 = other.low_ >>> 16;
      var b00 = other.low_ & 0xFFFF;

      var c48 = 0, c32 = 0, c16 = 0, c00 = 0;
      c00 += a00 * b00;
      c16 += c00 >>> 16;
      c00 &= 0xFFFF;
      c16 += a16 + b16;
      c32 += c16 >>> 16;
      c16 &= 0xFFFF;
      c32 += a32 + b32;
      c48 += c32 >>> 16;
      c32 &= 0xFFFF;
      c48 += a48 + b48;
      c48 &= 0xFFFF;

      return Kotlin.Long.fromBits(c16 << 16) | c00, (c48 << 16) | c32);
}
Kotlin.Long.NEG_ONE; else {\n    var rem = this.subtract(other.multiply(approx));\n    var result = approx.add(rem.divide(other))\n    return result;\n  } else if (other.equals(Kotlin.Long.MIN_VALUE)) {\n    return Kotlin.Long.ZERO;\n  } else if (this.isNegative()) {\n    return this.negate().divide(other.negate());\n  } else if (other.isNegative()) {\n    return this.divide(other.negate());\n  } // Repeat the following until the remainder is less than other: find an\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    // We will tweak the approximate result by changing it in the 48-th digit of\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    // 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    // 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    res = res.add(approxRes);\n    rem = rem.subtract(approxRem);\n  }\n  return res;\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.divide(other).multiply(other));\n};\n
/** @return {!Kotlin.Long} The bitwise-NOT of this value.\n */\nKotlin.Long.prototype.not = function() {\n  return Kotlin.Long.fromBits(~this.low_,\n                 ~this.high_);}\

/**\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 */\nKotlin.Long.prototype.and = function(other) {\n  return Kotlin.Long.fromBits(this.low_ & other.low_,\n                          this.high_ & other.high_);}\

/**\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 */\nKotlin.Long.prototype.xor = function(other) {\n  return Kotlin.Long.fromBits(this.low_ ^ other.low_,\n                             this.high_ ^ other.high_);}\

/**\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 */\nKotlin.Long.prototype.shiftLeft = function(numBits) {\n  numBits &= 63;\n  if (numBits == 0) {\n    return this;\n  } else {\n    var low = this.low_;\n    var high = this.high_;\n    return Kotlin.Long.fromBits(\n                          low >> numBits,\n                          high >> numBits);\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 */\nKotlin.Long.prototype.shiftRight = function(numBits) {\n  numBits &= 63;\n  if (numBits == 0) {\n    return this;\n  } else {\n    var high = this.high_;\n    var low = this.low_;\n    return Kotlin.Long.fromBits(\n                          low << numBits,\n                          high <<= numBits);\n  }\n};
placed into the new leading bits.
*/
Kotlin.Long.prototype.shiftRightUnsigned = function(numBits) {
  var low = this.low_;
  return Kotlin.Long.fromBits(
      (low >>> numBits) | (high << (32 - numBits)));
} else if (numBits == 32) {
  return Kotlin.Long.fromBits(high, 0);
} else {
  return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);
}
}

Kotlin.Long.prototype.equals = function (other) {
  return other instanceof Kotlin.Long &&
  this.equalsLong(other);
}

Kotlin.Long.prototype.compareTo_11rb$ =
Kotlin.Long.prototype.compare;

Kotlin.Long.prototype.inc = function() {
    return this.add(Kotlin.Long.ONE);
};

Kotlin.Long.prototype.dec = function() {
    return this.add(Kotlin.Long.NEG_ONE);
};

Kotlin.Long.prototype.valueOf = function() {
    return this.toNumber();
};

Kotlin.Long.prototype.unaryPlus = function() {
    return this;
};

Kotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;

Kotlin.compareTo = function (a, b) {
    var typeA = typeof a;
    if (typeA === "number") {
        if (typeof b === "number") {
            return Kotlin.doubleCompareTo(a, b);
        }
        return Kotlin.primitiveCompareTo(a, b);
    }
    if (typeA === "string" || typeA === "boolean") {
        return Kotlin.primitiveCompareTo(a, b);
    }
    return a.compareTo_11rb$(b);
};

Kotlin.primitiveCompareTo = function (a, b) {
    return a < b ? -1 : a > b ? 1 : 0;
};

Kotlin.doubleCompareTo = function (a, b) {
    if (a < b) return -1;
    if (a > b) return 1;
    if (a === b) {
        if (a !== 0) return 0;
        if (b !== 0) return 0;
        return a === 0;
    } else if (a < 0) return 1;
    if (b < 0) return 1;
    if (a === b) {
        return 0;
    } else if (a < 0) return 1;
    if (b < 0) return 1;
    return a !== 0;
};

Kotlin.doubleToBits = function(value) { /*...*/

Kotlin.getFloatBits = function(value) { /*...*/

Kotlin.getIntBits = function(value) { /*...*/

Kotlin.imul = Math.imul || imul;

function imul(a, b) {
    return ((a & 0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;
}

(function() {
    var buf = new ArrayBuffer(8);
    var bufFloat64 = new Float64Array(buf);
    var bufFloat32 = new Float32Array(buf);
    var bufInt32 = new Int32Array(buf);
    var bufInt16 = new Int16Array(buf);
    var bufInt8 = new Int8Array(buf);
    var bufChar = new Uint8Array(buf);
    var bufBool = new Uint8Array(buf);
    var bufNull = new Uint8Array(buf);
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    var bufNull = new Uint8Array(buf);
    var bufNull = new UINT8AR

function(value) {
    return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);
};
### Open Source Used In CKC - Time Series Data Engine 1.2.2.4

```javascript
if (typeof Math.acosh === "undefined") {
    Math.acosh = function(x) {
        if (x < 1) return NaN;
        else if (x - 1 >= taylor_n_bound) {
            return Math.log(x + Math.sqrt(x * x - 1));
        } else {
            var y = Math.sqrt(x - 1);
            if (y >= taylor_2_bound) return Math.log(y);
            if (Math.abs(x) < taylor_n_bound) var y3 = y * y;
            if (Math.abs(x) > taylor_2_bound) result += (x * y + x) / 3;
            return result;
        }
    }
}
```

```javascript
// Patch apply to work with TypedArrays if needed.
if (typeof ArrayBuffer.isView === "undefined") {
    ArrayBuffer.isView = function(a) {
        return obj && isObject(obj) && a.buffer === obj.buffer;
    }
}
```

### Math Functions

- `Math.abs(x)`: The absolute value of `x`.
- `Math.round(x)`: Rounds `x` to the nearest integer.
- `Math.floor(x)`: Rounds `x` down to the nearest integer.
- `Math.ceil(x)`: Rounds `x` up to the nearest integer.
- `Math.sqrt(x)`: The square root of `x`.
- `Math.pow(x, y)`: `x` raised to the power of `y`.
- `Math.exp(x)`: The exponential function of `x`, i.e., `e^x`.
- `Math.log(x)`: The natural logarithm of `x`.
- `Math.log10(x)`: The base-10 logarithm of `x`.
- `Math.log2(x)`: The base-2 logarithm of `x`.
- `Math.sin(x)`: The sine of `x` (in radians).
- `Math.cos(x)`: The cosine of `x` (in radians).
- `Math.tan(x)`: The tangent of `x` (in radians).
- `Math.asin(x)`: The arcsine of `x`.
- `Math.acos(x)`: The arccosine of `x`.
- `Math.atan(x)`: The arctangent of `x`.
- `Math.atan2(y, x)`: The arctangent of `y/x`, using the signs of both arguments to determine the quadrant of the result.
- `Math.sinh(x)`: The hyperbolic sine of `x`.
- `Math.cosh(x)`: The hyperbolic cosine of `x`.
- `Math.tanh(x)`: The hyperbolic tangent of `x`.
- `Math.asinh(x)`: The inverse hyperbolic sine of `x`.
- `Math.acosh(x)`: The inverse hyperbolic cosine of `x`.
- `Math.atanh(x)`: The inverse hyperbolic tangent of `x`.
- `Math.hypot(x, y)`: The hypotenuse of a right-angled triangle with sides of length `x` and `y`.
- `Math.sign(x)`: The sign of `x`, i.e., -1 for negative, 1 for positive, and 0 for zero.
- `Math.random()`: A random number between 0 (inclusive) and 1 (exclusive).
- `Math.PI`: The mathematical constant π (pi).
- `Math.E`: The mathematical constant e.
- `Math.EULER_GAMMA`: The Euler-Mascheroni constant (approximately 0.57721).
- `Math.SQRT1_2`: The square root of 1/2.

### Utility Functions

- `Array.prototype.slice(start, end)`: Returns a new array containing a portion of the original array.
- `Array.prototype.fill(value)`: Fills the array with the specified value.
- `Array.prototype.map(callback[, thisArg])`: Returns a new array with the results of calling a provided function on every element in the array.
- `Array.prototype.reduce(callback[, initialValue])`: Reduces the elements of an array to a single value using the provided callback function.
- `Array.prototype.every(callback[, thisArg])`: Returns true if all elements in the array pass the test specified by the callback function.
- `Array.prototype.some(callback[, thisArg])`: Returns true if at least one element in the array passes the test specified by the callback function.
- `Array.prototype.forEach(callback[, thisArg])`: Iterates over the array, invoking a provided callback function for each element.
- `Array.prototype.join(sep)`: Joins all elements of an array into a string, separated by the specified separator.
- `Array.prototype.reverse()`: Reverses the order of elements in the array.
- `Array.prototype.sort(compareFn)`: Sorts the array in place.
- `Array.prototype.shift()`, `Array.prototype.pop()`, `Array.prototype.unshift()`, `Array.prototype.push()`: Modify the array by adding or removing elements.
- `Array.prototype.filter(callback[, thisArg])`: Returns a new array with elements that pass the test specified by the callback function.
- `Array.prototype.find(callback[, thisArg])`: Returns the first element in the array that passes the test specified by the callback function.
- `Array.prototype.findIndex(callback[, thisArg])`: Returns the index of the first element in the array that passes the test specified by the callback function.

### Math Constants and Functions

- `Math.PI`: The mathematical constant π (pi).
- `Math.E`: The mathematical constant e.
- `Math.EULER_GAMMA`: The Euler-Mascheroni constant (approximately 0.57721).
- `Math.SQRT1_2`: The square root of 1/2.
- `Math.EULER_M`: The Euler-Mascheroni constant (approximately 0.57721).
- `Math.SQRT1_2`: The square root of 1/2.
- `Math.HYPOT`: The hypotenuse of a right-angled triangle with sides of length `x` and `y`.
- `Math.LOG2E`: The base-2 logarithm of e.
- `Math.LOG10E`: The base-10 logarithm of e.
- `Math.EULER_M`: The Euler-Mascheroni constant (approximately 0.57721).
- `Math.SQRT1_2`: The square root of 1/2.
- `Math.E`: The mathematical constant e.
- `Math.PI`: The mathematical constant π (pi).
- `Math.SQRT1_2`: The square root of 1/2.
- `Math.E`: The mathematical constant e.
- `Math.PI`: The mathematical constant π (pi).
- `Math.SQRT1_2`: The square root of 1/2.
- `Math.E`: The mathematical constant e.
- `Math.PI`: The mathematical constant π (pi).
- `Math.SQRT1_2`: The square root of 1/2.
- `Math.E`: The mathematical constant e.
- `Math.PI`: The mathematical constant π (pi).
- `Math.SQRT1_2`: The square root of 1/2.
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- `Math.PI`: The mathematical constant π (pi).
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- `Math.E`: The mathematical constant e.
- `Math.PI`: The mathematical constant π (pi).
- `Math.SQRT1_2`: The square root of 1/2.
- `Math.E`: The mathematical constant e.
- `Math.PI`: The mathematical constant π (pi).
- `Math.SQRT1_2`: The square root of 1/2.
- `Math.E`: The mathematical constant e.
- `Math.PI`: The mathematical constant π (pi).
- `Math.SQRT1_2`: The square root of 1/2.
- `Math.E`: The mathematical constant e.
try {
    (function() {
        apply(null, new Int32Array(0))
    }).apply(null, new Int32Array(0))
} catch (e) {
    var apply = Function.prototype.apply;
    Object.defineProperty(Function.prototype, 'apply', {
        value: function(self, array) {
            return apply.call(this, self, [].slice.call(array));
        }
    });
}

try {
    (function() {}).apply(null, new Int32Array(0))
} catch (e) {
    var apply = Function.prototype.apply;
    Object.defineProperty(Function.prototype, 'apply', {
        value: function(self, array) {
            return apply.call(this, self, [].slice.call(array));
        }
    });
}

// Patch map to work with TypedArrays if needed.
var totalOrderComparator = function (a, b) {
    if (a < b) return -1;
    if (a > b) return 1;
    if (a === b) {
        var ia = 1 / a;
        return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);
    }
    return a !== a ? (b !== b ? 0 : 1) : -1
};

for (var i = 0; i < arrays.length; ++i) {
    var TypedArray = arrays[i];
    if (typeof TypedArray.prototype.map === "undefined") {
        Object.defineProperty(TypedArray.prototype, 'map', {
            value: function(mapCallback, self) {
                return [].slice.call(this.map(mapCallback, self));
            }
        });
    }
}

// Patch sort to work with TypedArrays if needed. // TODO: consider to remove following function and replace it with 'Kotlin.doubleCompareTo' (see misc.js)
for (var i = 0; i < arrays.length; ++i) {
    var TypedArray = arrays[i];
    if (typeof TypedArray.prototype.sort === "undefined") {
        Object.defineProperty(TypedArray.prototype, 'sort', {
            value: function(compareFunction) {
                return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);
            }
        });
    }
}

/*
 * 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.
 */

Kotlin.Kind = {
    CLASS: "class",
    INTERFACE: "interface",
    OBJECT: "object"
};

Kotlin.callGetter = function (thisObject, klass, propertyName) {
    var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);
    if (propertyDescriptor != null && propertyDescriptor.get != null) {
        return propertyDescriptor.get.call(thisObject);
    }

    propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);
    if (propertyDescriptor != null && "value" in propertyDescriptor) {
        return thisObject[propertyName];
    }

    return Kotlin.callGetter(thisObject, Object.getPrototypeOf(klass), propertyName);
};

Kotlin.callSetter = function (thisObject, klass, propertyName, value) {
    var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);
    if (propertyDescriptor != null && propertyDescriptor.set != null) {
        propertyDescriptor.set.call(thisObject, value);
        return;
    }

    propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);
    if (propertyDescriptor != null && "value" in propertyDescriptor) {
        thisObject[propertyName] = value;
        return
    }

    Kotlin.callSetter(thisObject, Object.getPrototypeOf(klass), propertyName, value);
    if (propertyDescriptor != null && "value" in propertyDescriptor) {
        return;
    }

    var metadata = thisObject.prototype instanceof klass ? klass.prototype : null;
    var superConstructor = metadata && "constructor" in metadata ? metadata.constructor : null;
    return superConstructor != null &
    isInheritanceFromInterface(superConstructor, klass, iface);
}

/**
 * @param {*} object
 * @param {Function|Object} klass
 * @returns {Boolean}
 */
Kotlin.isType = function (object, klass) {
    if (klass === Object) {
        switch (typeof object) {
            case "string":
            case "number":
            case "boolean":
            case "function":
                return true;
            default:
                return returnObjectInstanceofObject(object, klass) && returnObjectInstanceofObject(object, klass)
        }
    }

    if (object == null || klass == null) {
        return returnObjectInstanceofObject(object, klass) && returnObjectInstanceofObject(object, klass)
    }

    var superPrototype = klass.prototype != null ? Object.getPrototypeOf(klass.prototype) : null;
    var superConstructor = klass.constructor != null ? Object.getPrototypeOf(klass.constructor) : null;
    return superConstructor === null &
    isInheritanceFromInterface(superConstructor, iface);
}

Kotlin.isNumber = function (a) {
    return typeof a == "number" || a instanceof {

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Kotlin

isChar = function (value) {
    return value instanceof Kotlin.Char;
}

isComparable = function (value) {
    var type = typeof value;

    return type === "string" ||
           type === "boolean" ||
           Kotlin.isNumber(value) ||
           Kotlin.isType(value, Kotlin.kotlin.Comparable);
};

isCharSequence = function (value) {
    return typeof value === "string" || Kotlin.isType(value, Kotlin.kotlin.CharSequence);
};

/*
 * 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.
 */

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
}

package kotlin.collections

import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an 
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
public inline operator fun <T> Array<out T>.component1(): T {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an 
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
public inline operator fun ByteArray.component1(): Byte {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an 
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
public inline operator fun ShortArray.component1(): Short {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an 
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
public inline operator fun IntArray.component1(): Int {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an 
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
public inline operator fun LongArray.component1(): Long {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an 
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
public inline operator fun FloatArray.component1(): Float {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an 
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
public inline operator fun DoubleArray.component1(): Double {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an 
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
public inline operator fun BooleanArray.component1(): Boolean {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * 
 * If the size of this array is less than 1, throws an 
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
public inline operator fun CharArray.component1(): Char {
    return get(0)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an 
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
public inline operator fun <T> Array<out T>.component2(): T {
    return get(1)
}
*@kotlin.internal.InlineOnly*/public inline operator fun ByteArray.component2(): Byte {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun ShortArray.component2(): Short {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun IntArray.component2(): Int {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun LongArray.component2(): Long {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun FloatArray.component2(): Float {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun DoubleArray.component2(): Double {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun BooleanArray.component2(): Boolean {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * 
 * If the size of this array is less than 2, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun CharArray.component2(): Char {
    return get(1)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun <T> Array<out T>.component3(): T {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun ByteArray.component3(): Byte {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun ShortArray.component3(): Short {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun IntArray.component3(): Int {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun LongArray.component3(): Long {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun FloatArray.component3(): Float {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun DoubleArray.component3(): Double {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun BooleanArray.component3(): Boolean {
    return get(2)
}

/**
 * Returns 3rd *element* from the array.
 * 
 * If the size of this array is less than 3, throws an
 * [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@kotlin.internal.InlineOnly*/public inline operator fun CharArray.component3(): Char {
    return get(2)
}
[IndexOutOfBoundsException] except in Kotlin/JS
* @kotlin.internal.InlineOnly
@public inline operator fun CharArray.component3(): Char

return get(2) */


* * Returns 4th *element* from the array.
* * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun <T> Array<out T>.component4(): T

return get(3) */


* * Returns 4th *element* from the array.
* * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun ByteArray.component4(): Byte

return get(3) */


* * Returns 4th *element* from the array.
* * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun ShortArray.component4(): Short

return get(3) */


* * Returns 4th *element* from the array.
* * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun IntArray.component4(): Int

return get(3) */


* * Returns 4th *element* from the array.
* * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun LongArray.component4(): Long

return get(3) */


* * Returns 4th *element* from the array.
* * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun FloatArray.component4(): Float

return get(3) */


* * Returns 4th *element* from the array.
* * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun DoubleArray.component4(): Double

return get(3) */


* * Returns 4th *element* from the array.
* * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun BooleanArray.component4(): Boolean

return get(3) */


* * Returns 4th *element* from the array.
* * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun CharArray.component4(): Char

return get(3) */


* * Returns 4th *element* from the array.
* * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun IntArray.component5(): Int

return get(4) */


* * Returns 5th *element* from the array.
* * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun LongArray.component5(): Long

return get(4) */


* * Returns 5th *element* from the array.
* * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun FloatArray.component5(): Float

return get(4) */


* * Returns 5th *element* from the array.
* * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun DoubleArray.component5(): Double

return get(4) */


* * Returns 5th *element* from the array.
* * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun BooleanArray.component5(): Boolean

return get(4) */


* * Returns 5th *element* from the array.
* * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun CharArray.component5(): Char

return get(4) */


* * Returns 5th *element* from the array.
* * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.

* @kotlin.internal.InlineOnly
@public inline operator fun IntArray.component5(): Int

return get(4) */


* * Returns 5th *element* from the array.
* * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.
* IndexOutOfBoundsException] except in Kotlin/JS

where the behavior is unspecified.

@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component5(): Double {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * If the size of this array is less than 5, throws an
 * IndexOutOfBoundsException except in Kotlin/JS

where the behavior is unspecified.

@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component5(): Boolean {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * If the size of this array is less than 5, throws an
 * IndexOutOfBoundsException except in Kotlin/JS

where the behavior is unspecified.

@kotlin.internal.InlineOnly
public inline operator fun CharArray.component5(): Char {
    return get(4)
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun <T> Array<out T>.contains(element: T): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun ByteArray.contains(element: Byte): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun ShortArray.contains(element: Short): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun IntArray.contains(element: Int): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun LongArray.contains(element: Long): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun FloatArray.contains(element: Float): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun DoubleArray.contains(element: Double): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun BooleanArray.contains(element: Boolean): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun CharArray.contains(element: Char): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns an element at the given [index] or throws an
 * IndexOutOfBoundsException if the [index] is out of bounds of this array.
 */
public expect fun <T> Array<out T>.elementAt(index: Int): T

/**
 * Returns an element at the given [index] or throws an
 * IndexOutOfBoundsException if the [index] is out of bounds of this array.
 */
public expect fun ByteArray.elementAt(index: Int): Byte

/**
 * Returns an element at the given [index] or throws an
 * IndexOutOfBoundsException if the [index] is out of bounds of this array.
 */
public expect fun ShortArray.elementAt(index: Int): Short

/**
 * Returns an element at the given [index] or throws an
 * IndexOutOfBoundsException if the [index] is out of bounds of this array.
 */
public expect fun IntArray.elementAt(index: Int): Int

/**
 * Returns an element at the given [index] or throws an
 * IndexOutOfBoundsException if the [index] is out of bounds of this array.
 */
public expect fun LongArray.elementAt(index: Int): Long

/**
 * Returns an element at the given [index] or throws an
 * IndexOutOfBoundsException if the [index] is out of bounds of this array.
 */
public expect fun FloatArray.elementAt(index: Int): Float

/**
 * Returns an element at the given [index] or throws an
 * IndexOutOfBoundsException if the [index] is out of bounds of this array.
 */
public expect fun DoubleArray.elementAt(index: Int): Double

/**
 * Returns an element at the given [index] or throws an
 * IndexOutOfBoundsException if the [index] is out of bounds of this array.
 */
public expect fun BooleanArray.elementAt(index: Int): Boolean

/**
 * Returns an element at the given [index] or throws an
 * IndexOutOfBoundsException if the [index] is out of bounds of this array.
 */
public expect fun CharArray.elementAt(index: Int): Char

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun
```kotlin
<T> Array<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
    \n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```
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```kotlin
LongArray.elementAtOrNull(index: Int): Long? {
    return this.getOrNull(index)
} * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.

FloatArray.elementAtOrNull(index: Int): Float? {
    return this.getOrNull(index)
} * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.

DoubleArray.elementAtOrNull(index: Int): Double? {
    return this.getOrNull(index)
} * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.

CharArray.elementAtOrNull(index: Int): Char? {
    return this.getOrNull(index)
} * Returns an element at the given [index] or 'null' if the [index] is out of bounds of this array.

ByteArray.find(predicate: (Byte) -> Boolean): Byte? {
    return firstOrNull(predicate)
} * Returns the first element matching the given [predicate], or 'null' if no such element was found.

IntArray.find(predicate: (Int) -> Boolean): Int? {
    return firstOrNull(predicate)
} * Returns the first element matching the given [predicate], or 'null' if no such element was found.

IntArray.findLast(predicate: (Int) -> Boolean): Int? {
    return lastOrNull(predicate)
} * Returns the last element matching the given [predicate], or 'null' if no such element was found.

ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {
    return lastOrNull(predicate)
} * Returns the last element matching the given [predicate], or 'null' if no such element was found.

ShortArray.findLast(predicate: (Short) -> Boolean): Short? {
    return lastOrNull(predicate)
} * Returns the last element matching the given [predicate], or 'null' if no such element was found.

IntArray.findLast(predicate: (Int) -> Boolean): Int? {
    return lastOrNull(predicate)
} * Returns the last element matching the given [predicate], or 'null' if no such element was found.

ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {
    return lastOrNull(predicate)
} * Returns the last element matching the given [predicate], or 'null' if no such element was found.

CharArray.findLast(predicate: (Char) -> Boolean): Char? {
    return lastOrNull(predicate)
} * Returns the last element matching the given [predicate], or 'null' if no such element was found.

FloatArray.findLast(predicate: (Float) -> Boolean): Float? {
    return lastOrNull(predicate)
} * Returns the last element matching the given [predicate], or 'null' if no such element was found.

DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {
    return lastOrNull(predicate)
} * Returns the last element matching the given [predicate], or 'null' if no such element was found.

BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {
    return lastOrNull(predicate)
} * Returns the last element matching the given [predicate], or 'null' if no such element was found.

CharArray.findLast(predicate: (Char) -> Boolean): Char? {
    return lastOrNull(predicate)
} * Returns the last element matching the given [predicate], or 'null' if no such element was found.
```

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the last element matching the given [predicate], or `null` if no such element was found.

```kotlin
@kotlin.internal.InlineOnly
public inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.findLast(predicate: (Char) -> Boolean): Char? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun <T> Array<out T>.first(): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ByteArray.first(): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ShortArray.first(): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun IntArray.first(): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun LongArray.first(): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun FloatArray.first(): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun DoubleArray.first(): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun BooleanArray.first(): Boolean {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun CharArray.first(): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun <T> Array<out T>.first(predicate: (T) -> Boolean): T {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun ShortArray.first(predicate: (Short) -> Boolean): Short {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun IntArray.first(predicate: (Int) -> Boolean): Int {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun LongArray.first(predicate: (Long) -> Boolean): Long {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double? {
    return first()
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean? {
    return first()
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if no such element is found.
 */
public inline fun CharArray.first(predicate: (Char) -> Boolean): Char? {
    return first()
}
```

---

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public inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public inline fun CharArray.first(predicate: (Char) -> Boolean): Char {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public inline fun <T> Array<out T>.firstOrNull(): T? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun ByteArray.firstOrNull(): Byte? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun ShortArray.firstOrNull(): Short? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun IntArray.firstOrNull(): Int? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun LongArray.firstOrNull(): Long? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun FloatArray.firstOrNull(): Float? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun DoubleArray.firstOrNull(): Double? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun BooleanArray.firstOrNull(): Boolean? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun CharArray.firstOrNull(): Char? {
    return if (isEmpty()) null else this[0]
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {
    return if (index >= 0 && index <= lastIndex) get(index) else

defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.getOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun <T> Array<out T>.getOrNull(index: Int): T? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun ByteArray.getOrNull(index: Int): Byte? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun ShortArray.getOrNull(index: Int): Short? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun IntArray.getOrNull(index: Int): Int? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun LongArray.getOrNull(index: Int): Long? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun FloatArray.getOrNull(index: Int): Float? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun DoubleArray.getOrNull(index: Int): Double? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun BooleanArray.getOrNull(index: Int): Boolean? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
public fun CharArray.getOrNull(index: Int): Char? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
public fun <T> Array<out T>.indexOf(element: T): Int {
    if (element == null) {
        for (index in indices) {
            if (this[index] == null) {
                return index

```
Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.

ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.

CharArray.indexOfLast(predicate: (Char) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.

DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.

FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.

ByteArray.last(): Byte

@throws [NoSuchElementException] if the array is empty.

IntArray.lastIndexOf(predicate: (Int) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.

IntArray.lastIndexOf(predicate: (Long) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.

IntArray.lastIndexOf(predicate: (Short) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.

IntArray.lastIndexOf(predicate: (Long) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.

IntArray.lastIndexOf(predicate: (Short) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

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IntArray.lastIndexOf(predicate: (Int) -> Boolean): Int

if (predicate(this[index])) {
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    return index
}

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IntArray.lastIndexOf(predicate: (Short) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.

IntArray.lastIndexOf(predicate: (Int) -> Boolean): Int

if (predicate(this[index])) {
    return index
}

@throws [NoSuchElementException] if the array is empty.
(T -> Boolean): T {
  val element = this[index]
  if (predicate(element)) return element
  throw NoSuchElementException("Array contains no element matching the predicate.")
}

(T -> Boolean): T {
  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.
 */
public inline fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {
  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.
 */
public inline fun ShortArray.last(predicate: (Short) -> Boolean): Short {
  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.
 */
public inline fun IntArray.last(predicate: (Int) -> Boolean): Int {
  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.
 */
public inline fun LongArray.last(predicate: (Long) -> Boolean): Long {
  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.
 */
public inline fun FloatArray.last(predicate: (Float) -> Boolean): Float {
  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.
 */
public inline fun DoubleArray.last(predicate: (Double) -> Boolean): Double {
  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.
 */
public inline fun BooleanArray.last(predicate: (Boolean) -> Boolean): Boolean {
  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.
 */
public inline fun CharArray.last(predicate: (Char) -> Boolean): Char {
  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
}

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this(index) { \n    return index\n  } \n  return -1\n}/** Returns last index of [element], or -1 if the array does not contain element.*/

public fun FloatArray.lastIndexOf(element: Float): Int { \n    for (index in indices.reversed()) { \n        if (element == this[index]) { \n            return index\n        } \n    } \n    return -1\n}/** Returns last index of [element], or -1 if the array does not contain element.*/

public fun BooleanArray.lastIndexOf(element: Boolean): Int { \n    for (index in indices.reversed()) { \n        if (element == this[index]) { \n            return index\n        } \n    } \n    return -1\n}/** Returns last index of [element], or -1 if the array does not contain element.*/

public fun CharArray.lastIndexOf(element: Char): Int { \n    for (index in indices.reversed()) { \n        if (element == this[index]) { \n            return index\n        } \n    } \n    return -1\n}/** Returns last index of [element], or -1 if the array does not contain element.*/

public fun ByteArray.lastIndexOf(element: Byte): Int { \n    for (index in indices.reversed()) { \n        if (element == this[index]) { \n            return index\n        } \n    } \n    return -1\n}/** Returns last index of [element], or -1 if the array does not contain element.*/

public fun ShortArray.lastIndexOf(element: Short): Int { \n    for (index in indices.reversed()) { \n        if (element == this[index]) { \n            return index\n        } \n    } \n    return -1\n}/** Returns last index of [element], or -1 if the array does not contain element.*/

public fun IntArray.lastIndexOf(element: Int): Int { \n    for (index in indices.reversed()) { \n        if (element == this[index]) { \n            return index\n        } \n    } \n    return -1\n}/** Returns last index of [element], or -1 if the array does not contain element.*/

public fun ByteArray.lastIndexOf(element: Byte): Int { \n    for (index in indices.reversed()) { \n        if (element == this[index]) { \n            return index\n        } \n    } \n    return -1\n}/** Returns last index of [element], or -1 if the array does not contain element.*/

public fun <T> Array<out T>.lastOrNull(): T? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun ByteArray.lastOrNull(): Byte? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun ShortArray.lastOrNull(): Short? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun IntArray.lastOrNull(): Int? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun ByteArray.lastOrNull(): Byte? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun DoubleArray.lastOrNull(): Double? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun CharArray.lastOrNull(): Char? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun BooleanArray.lastOrNull(): Boolean? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun FloatArray.lastOrNull(): Float? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun LongArray.lastOrNull(): Long? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun IntArray.lastOrNull(): Int? { \n    return if (isEmpty()) null else this[size - 1]\n}/** Returns the last element, or `null` if the array is empty.*/

public fun ByteArray.lastOrNull(): Byte? { \n    return if (isEmpty()) null else this[size - 1]\n} /** Returns the last element, or `null` if the array is empty.*/

public fun StringArray.lastOrNull(): String? { \n    return if (isEmpty()) null else this[size - 1]\n} /** Returns the last element, or `null` if the array is empty.*/

public fun <T> Array<out T>.lastOrNull(): T? { \n    return if (isEmpty()) null else this[size - 1]\n} /** Returns the last element, or `null` if the array is empty.*/
the last element matching the given [predicate], or `null` if no such element was found.

```kotlin
public inline fun CharArray.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<T>.random(): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}
```

```kotlin
/**
 * 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))
}
```
fun DoubleArray.random(random: Random): Double { if (isEmpty()) throw
NoSuchElementException("Array is empty.")
return get(random.nextInt(size))
} // **

fun CharArray.random(random: Random): Char { if (isEmpty()) throw
NoSuchElementException("Array is empty.")
return get(random.nextInt(size))
} // **

fun BooleanArray.random(random: Random): Boolean { if (isEmpty()) throw
NoSuchElementException("Array is empty.")
return get(random.nextInt(size))
} // **

fun CharArray.randomOrNull(random: Random): Char? { if (isEmpty()) return null
return get(random.nextInt(size))
} // **

fun ByteArray.randomOrNull(random: Random): Byte? { return randomOrNull(Random)
} // **

fun ShortArray.randomOrNull(random: Random): Short? { return randomOrNull(Random)
} // **

fun IntArray.randomOrNull(random: Random): Int? { return randomOrNull(Random)
} // **

fun LongArray.randomOrNull(random: Random): Long? { return randomOrNull(Random)
} // **

fun FloatArray.randomOrNull(random: Random): Float? { return randomOrNull(Random)
} // **

fun DoubleArray.randomOrNull(random: Random): Double? { return randomOrNull(Random)
} // **

fun BooleanArray.randomOrNull(random: Random): Boolean? { return randomOrNull(Random)
} // **

fun CharArray.randomOrNull(random: Random): Char? { return randomOrNull(Random)
} // **
**\@SinceKotlin("1.3")**\@ExperimentalStdlibApi public fun LongArray.randomOrNull(random: Random): Long? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */

public fun FloatArray.randomOrNull(random: Random): Float? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */

public fun DoubleArray.randomOrNull(random: Random): Double? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */

public fun BooleanArray.randomOrNull(random: Random): Boolean? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.
 */

public fun CharArray.randomOrNull(random: Random): Char? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */

public fun <T> Array<out T>.single(): T {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */

public fun ByteArray.single(): Byte {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */

public fun ShortArray.single(): Short {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */

public fun IntArray.single(): Int {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */

public fun LongArray.single(): Long {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */

public fun FloatArray.single(): Float {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */

public fun DoubleArray.single(): Double {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */

public fun BooleanArray.single(): Boolean {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */

public fun CharArray.single(): Char {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */

inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (found) return single
    throw NoSuchElementException("Array contains no matching element.")
}


// Source code generated by the Kotlin compiler.
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")
@Suppress("UNCHECKED_CAST")
    return single as T
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Byte
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Short
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun IntArray.single(predicate: (Int) -> Boolean): Int {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Int
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun LongArray.single(predicate: (Long) -> Boolean): Long {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Long
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {
    var single: Float? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Float
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {
    var single: Double? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Double
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {
    var single: Boolean? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Boolean
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
public inline fun CharArray.single(predicate: (Char) -> Boolean): Char {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return single as Char
}
BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {
    var single: Boolean? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

/**
 * Returns a list containing all elements except first [n] elements.
 */
public fun <T> Array<out T>.drop(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 */
public fun ByteArray.drop(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 */
public fun ShortArray.drop(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 */
public fun IntArray.drop(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 */
public fun LongArray.drop(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 */
public fun FloatArray.drop(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 */
public fun DoubleArray.drop(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 */
public fun BooleanArray.drop(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 */
public fun <T> Array<out T>.dropLast(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 */
public fun ByteArray.dropLast(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 */
public fun ShortArray.dropLast(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 */
public fun IntArray.dropLast(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 */
public fun LongArray.dropLast(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 */
public fun FloatArray.dropLast(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 */
public fun DoubleArray.dropLast(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 */
public fun BooleanArray.dropLast(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 */
public fun CharArray.dropLast(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
IllegalArgumentException if \([n]\) is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */
public fun ByteArray.dropLast(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n/**
 * Returns a list containing all elements except last \([n]\) elements.\n * @throws IllegalArgumentException if \([n]\) is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */
public fun ShortArray.dropLast(n: Int): List<Short> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n/**
 * Returns a list containing all elements except last \([n]\) elements.\n * @throws IllegalArgumentException if \([n]\) is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */
public fun IntArray.dropLast(n: Int): List<Int> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n/**
 * Returns a list containing all elements except last \([n]\) elements.\n * @throws IllegalArgumentException if \([n]\) is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */
public fun LongArray.dropLast(n: Int): List<Long> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n/**
 * Returns a list containing all elements except last \([n]\) elements.\n * @throws IllegalArgumentException if \([n]\) is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */
public fun FloatArray.dropLast(n: Int): List<Float> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n/**
 * Returns a list containing all elements except last \([n]\) elements.\n * @throws IllegalArgumentException if \([n]\) is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */
public fun DoubleArray.dropLast(n: Int): List<Double> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n/**
 * Returns a list containing all elements except last \([n]\) elements.\n * @throws IllegalArgumentException if \([n]\) is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */
public fun BooleanArray.dropLast(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n/**
 * Returns a list containing all elements except last \([n]\) elements.\n * @throws IllegalArgumentException if \([n]\) is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */
public fun CharArray.dropLast(n: Int): List<Char> {
    require(n >= 0) { "Requested element count \(n\) is less than zero." }
    return take((size - n).coerceAtLeast(0))\n/**
 * Returns a list containing all elements except last \([n]\) elements that satisfy the given \[predicate\].\n * @sample samples.collections.Collections.Transformations.drop\n */
public inline fun <T> Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
/**
 * Returns a list containing all elements except last \([n]\) elements that satisfy the given \[predicate\].\n * @sample samples.collections.Collections.Transformations.drop\n */
public inline fun ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
/**
 * Returns a list containing all elements except last \([n]\) elements that satisfy the given \[predicate\].\n * @sample samples.collections.Collections.Transformations.drop\n */
public inline fun ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
/**
 * Returns a list containing all elements except last \([n]\) elements that satisfy the given \[predicate\].\n * @sample samples.collections.Collections.Transformations.drop\n */
public inline fun IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
/**
 * Returns a list containing all elements except last \([n]\) elements that satisfy the given \[predicate\].\n * @sample samples.collections.Collections.Transformations.drop\n */
public inline fun LongArray.dropLastWhile(predicate: (Long) -> Boolean): List<Long> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
/**
 * Returns a list containing all elements except last \([n]\) elements that satisfy the given \[predicate\].\n * @sample samples.collections.Collections.Transformations.drop\n */
public inline fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
/**
 * Returns a list containing all elements except last \([n]\) elements that satisfy the given \[predicate\].\n * @sample samples.collections.Collections.Transformations.drop\n */
public inline fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
/**
 * Returns a list containing all elements except last \([n]\) elements that satisfy the given \[predicate\].\n * @sample samples.collections.Collections.Transformations.drop\n */
public inline fun BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
/**
 * Returns a list containing all elements except last \([n]\) elements that satisfy the given \[predicate\].\n * @sample samples.collections.Collections.Transformations.drop\n */
public inline fun CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}
samples.collections.Collections.Transformations.drop\n*/\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\nreturn emptyList()\n\n* Returns a list containing all elements except last elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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\nreturn emptyList()\n\n* Returns a list containing all elements except last elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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\nreturn emptyList()\n\n* Returns a list containing all elements except last elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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\nreturn emptyList()\n\n* Returns a list containing all elements except last elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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\nreturn emptyList()\n\n* Returns a list containing all elements except last elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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\nreturn emptyList()\n\n* Returns a list containing all elements except last elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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\nreturn emptyList()\n\n* Returns a list containing all elements except last elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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\nreturn emptyList()\n\n* Returns a list containing all elements except last elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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            yielding = true\n    }\n    return list\n}\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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            yielding = true\n    }\n    return list\n}\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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            yielding = true\n    }\n    return list\n}\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop\n*/\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            yielding = true\n    }\n    return list\n}\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].\n\n* Returns a list containing all elements except first elements that satisfy the given [predicate].
(Double) -> Boolean): List<Double> {
    var yielding = false
    val list = ArrayList<Double>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

val list = ArrayList<Boolean>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that
 * satisfy 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.
 */
public inline fun IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {
    var yielding = false
    val list = ArrayList<Int>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that
 * satisfy 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.
 */
public inline fun CharArray.dropWhile(predicate: (Char) -> Boolean): List<Char> {
    var yielding = false
    val list = ArrayList<Char>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that
 * satisfy 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.
 */
public inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {
    var yielding = false
    val list = ArrayList<Byte>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that
 * satisfy 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.
 */
public inline fun ShortArray.dropWhile(predicate: (Short) -> Boolean): List<Short> {
    var yielding = false
    val list = ArrayList<Short>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that
 * satisfy 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.
 */
public inline fun IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {
    var yielding = false
    val list = ArrayList<Int>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that
 * satisfy 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.
 */
public inline fun LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {
    var yielding = false
    val list = ArrayList<Long>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that
 * satisfy 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.
 */
public inline fun FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {
    var yielding = false
    val list = ArrayList<Float>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that
 * satisfy 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.
 */
public inline fun DoubleArray.dropWhile(predicate: (Double) -> Boolean): List<Double> {
    var yielding = false
    val list = ArrayList<Double>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that
 * satisfy 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.
 */
public inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    var yielding = false
    val list = ArrayList<Boolean>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}

/**
 * Returns a list containing all elements except first elements that
 * satisfy 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.
 */
public inline fun <T> Array<out T>.dropWhile(predicate: (T) -> Boolean): List<T> {
    var yielding = false
    val list = ArrayList<T>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item)) {
            list.add(item)
            yielding = true
        }
    return list
}
the index of an element and the element itself
* and returns the result of predicate evaluation on the element.

/*public inline fun FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {
    return filterIndexedTo(ArrayList<Float>(), predicate)
} *

/*public inline fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {
    return filterIndexedTo(ArrayList<Double>(), predicate)
} *

/*public inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {
    return filterIndexedTo(ArrayList<Boolean>(), predicate)
} *

/*public inline fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {
    return filterIndexedTo(ArrayList<Char>(), predicate)
} *

/*public inline fun <T, C : MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {
    forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
} *

/*public inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean): C {
    forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
} *

/*public inline fun <C : MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {
    forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
} *

/*public inline fun <C : MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {
    forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
} *

/*public inline fun <C : MutableCollection<in Long>> LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {
    forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
} *

/*public inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean): C {
    forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
} *
BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    forEachIndexed {
        index, element ->
            if (predicate(index, element)) destination.add(element)
    }
    return destination
}

Array<*>.filterIsInstanceTo(destination: C): C {
    for (element in this) if (element is R)
        destination.add(element)
    return destination
}

ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}
targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex++] = this[sourceIndex]
    }
    return

Array<T>.sliceArray(indices: Collection<Int>): Array<T> {
    val result = arrayOfNulls(this, indices.size)
    var
Returns an array containing elements of this array at specified [indices].
 */
public fun <T> ArrayList<Char>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 *
List<Char> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list =
Returns a list containing elements at specified [indices].
 */
public fun CharArray.slice(indices: Iterable<Int>): List<Char> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list =
for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 *
List<Boolean> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Boolean>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 *
List<Double> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Double>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 *
List<Float> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Float>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 *
List<Long> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Long>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 *
List<Int> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Int>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 *
List<Short> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Short>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 *
List<Byte> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Byte>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 *
List<T> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<T>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 *
Array<T>.slice(indices: Collection<Int>): Array<T> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun CharArray.slice(indices: IntRange): List<Char> {
    if (indices.isEmpty()) return listOf()
    return
for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun BooleanArray.slice(indices: IntRange): List<Boolean> {
    if (indices.isEmpty()) return listOf()
    return
for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun DoubleArray.slice(indices: IntRange): List<Double> {
    if (indices.isEmpty()) return listOf()
    return
for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun FloatArray.slice(indices: IntRange): List<Float> {
    if (indices.isEmpty()) return listOf()
    return
for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun LongArray.slice(indices: IntRange): List<Long> {
    if (indices.isEmpty()) return listOf()
    return
for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun IntArray.slice(indices: IntRange): List<Int> {
    if (indices.isEmpty()) return listOf()
    return
for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun ShortArray.slice(indices: IntRange): List<Short> {
    if (indices.isEmpty()) return listOf()
    return
for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun ByteArray.slice(indices: IntRange): List<Byte> {
    if (indices.isEmpty()) return listOf()
    return
for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun <T> Array<out T>.slice(indices: Collection<Int>): Array<T> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun <T> Array<out T>.slice(indices: IntRange): Array<T> {
    if (indices.isEmpty()) return arrayOfNulls()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun <T> Array<out T>.slice(indices: IntRange): Array<T> {
    if (indices.isEmpty()) return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun <T> Array<out T>.slice(indices: IntRange): Array<T> {
    if (indices.isEmpty()) return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun <T> Array<out T>.slice(indices: IntRange): Array<T> {
    if (indices.isEmpty()) return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun <T> Array<out T>.slice(indices: IntRange): Array<T> {
    if (indices.isEmpty()) return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
result

* Returns an array containing elements of this array at specified [indices].

* @throws IllegalArgumentException if [n] is negative.

* @sample

```java
CharArray.sliceArray(indices: IntRange): CharArray {
    if (indices.isEmpty()) return CharArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
public fun LongArray.sliceArray(indices: IntRange): LongArray {
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex] = this[sourceIndex]
        targetIndex += 1
    }
    return result
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun DoubleArray.sliceArray(indices: IntRange): DoubleArray {
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex] = this[sourceIndex]
        targetIndex += 1
    }
    return result
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun FloatArray.sliceArray(indices: IntRange): FloatArray {
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex] = this[sourceIndex]
        targetIndex += 1
    }
    return result
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun ByteArray.sliceArray(indices: IntRange): ByteArray {
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex] = this[sourceIndex]
        targetIndex += 1
    }
    return result
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun ShortArray.sliceArray(indices: IntRange): ShortArray {
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex] = this[sourceIndex]
        targetIndex += 1
    }
    return result
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun CharArray.sliceArray(indices: IntRange): CharArray {
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex] = this[sourceIndex]
        targetIndex += 1
    }
    return result
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun IntArray.sliceArray(indices: IntRange): IntArray {
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex] = this[sourceIndex]
        targetIndex += 1
    }
    return result
}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
public fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex] = this[sourceIndex]
        targetIndex += 1
    }
    return result
}
```
samples.collections.Collections.Transformations.take

```java
/*public fun <T> Array<out T>.take(n: Int): List<T> { 
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList<out T>()
    if (n > size) return toList<out T>()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<out T>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}
```

Returns a list containing first [n] elements. 

```java
val list = ArrayList<Char>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Double>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Float>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Long>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Int>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Short>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Byte>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<T>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

Returns a list containing first [n] elements. 

```java
val list = ArrayList<Char>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Double>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Float>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Long>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Int>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Short>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Byte>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

Returns a list containing first [n] elements. 

```java
val list = ArrayList<T>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

Returns a list containing first [n] elements. 

```java
val list = ArrayList<Char>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Double>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Float>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Long>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Int>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Short>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Byte>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

Returns a list containing first [n] elements. 

```java
val list = ArrayList<T>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

Returns a list containing first [n] elements. 

```java
val list = ArrayList<Char>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Double>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Float>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Long>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Int>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Short>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Byte>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

Returns a list containing first [n] elements. 

```java
val list = ArrayList<T>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

Returns a list containing first [n] elements. 

```java
val list = ArrayList<Char>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Double>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Float>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Long>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Int>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Short>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

```java
val list = ArrayList<Byte>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

Returns a list containing first [n] elements. 

```java
val list = ArrayList<T>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
```

Returns a list containing first [n] elements.
(Byte) -> Boolean): List<Byte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun CharArray.takeLastWhile(predicate: (Char) -> Boolean): List<Char> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {
    val list = ArrayList<T>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ByteArray.takeWhile(predicate: (Byte) -> Boolean): List<Byte> {
    val list = ArrayList<Byte>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {
    val list = ArrayList<Short>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {
    val list = ArrayList<Int>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {
    val list = ArrayList<Long>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {
    val list = ArrayList<Float>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {
    val list = ArrayList<Double>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun BooleanArray.takeWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    val list = ArrayList<Boolean>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {
    val list = ArrayList<Char>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {
    val list = ArrayList<T>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}
public inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {
    val list = ArrayList<Double>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun BooleanArray.takeWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    val list = ArrayList<Boolean>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun CharArray.takeWhile(predicate: CharArray.(Char) -> Boolean): List<Char> {
    val list = ArrayList<Char>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ShortArray.takeWhile(predicate: ShortArray.(Short) -> Boolean): List<Short> {
    val list = ArrayList<Short>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun ByteArray.takeWhile(predicate: ByteArray.(Byte) -> Boolean): List<Byte> {
    val list = ArrayList<Byte>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun IntArray.takeWhile(predicate: IntArray.(Int) -> Boolean): List<Int> {
    val list = ArrayList<Int>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun LongArray.takeWhile(predicate: LongArray.(Long) -> Boolean): List<Long> {
    val list = ArrayList<Long>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun Array<out T>.takeWhile(predicate: Array<out T>.(T) -> Boolean): List<T> {
    val list = ArrayList<T>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Reverses elements in the array in-place.
 */
public fun DoubleArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun BooleanArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun CharArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun ShortArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun ByteArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun IntArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun LongArray.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Reverses elements in the array in-place.
 */
public fun <T> Array<out T>.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}
in the array in-place descending according to their natural sort order.

```kotlin
fun LongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

fun DoubleArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

fun FloatArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

fun LongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

fun FloatArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

fun IntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

fun ShortArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

fun ByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

fun CharArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}
```

Returns a list of all elements sorted according to their natural sort order.

```kotlin
fun IntArray.sorted(): List<Int> {
    return toTypedArray().apply { sort() }.asList()
}

fun LongArray.sorted(): List<Long> {
    return toTypedArray().apply { sort() }.asList()
}

fun DoubleArray.sorted(): List<Double> {
    return toTypedArray().apply { sort() }.asList()
}

fun FloatArray.sorted(): List<Float> {
    return toTypedArray().apply { sort() }.asList()
}

fun LongArray.sorted(): List<Long> {
    return toTypedArray().apply { sort() }.asList()
}

fun FloatArray.sorted(): List<Float> {
    return toTypedArray().apply { sort() }.asList()
}

fun IntArray.sorted(): List<Int> {
    return toTypedArray().apply { sort() }.asList()
}

fun ShortArray.sorted(): List<Short> {
    return toTypedArray().apply { sort() }.asList()
}

fun ByteArray.sorted(): List<Byte> {
    return toTypedArray().apply { sort() }.asList()
}
```

Returns a list of all elements sorted according to their natural sort order.

```kotlin
fun IntArray.sorted(): List<Int> {
    return toTypedArray().apply { sort() }.asList()
}

fun LongArray.sorted(): List<Long> {
    return toTypedArray().apply { sort() }.asList()
}

fun DoubleArray.sorted(): List<Double> {
    return toTypedArray().apply { sort() }.asList()
}

fun FloatArray.sorted(): List<Float> {
    return toTypedArray().apply { sort() }.asList()
}

fun LongArray.sorted(): List<Long> {
    return toTypedArray().apply { sort() }.asList()
}

fun FloatArray.sorted(): List<Float> {
    return toTypedArray().apply { sort() }.asList()
}

fun IntArray.sorted(): List<Int> {
    return toTypedArray().apply { sort() }.asList()
}

fun ShortArray.sorted(): List<Short> {
    return toTypedArray().apply { sort() }.asList()
}

fun ByteArray.sorted(): List<Byte> {
    return toTypedArray().apply { sort() }.asList()
}
```

Returns an array with all elements of this array sorted according to their natural sort order.

```kotlin
fun IntArray.sorted(): List<Int> {
    return toTypedArray().apply { sort() }.asList()
}

fun LongArray.sorted(): List<Long> {
    return toTypedArray().apply { sort() }.asList()
}

fun DoubleArray.sorted(): List<Double> {
    return toTypedArray().apply { sort() }.asList()
}

fun FloatArray.sorted(): List<Float> {
    return toTypedArray().apply { sort() }.asList()
}

fun LongArray.sorted(): List<Long> {
    return toTypedArray().apply { sort() }.asList()
}

fun FloatArray.sorted(): List<Float> {
    return toTypedArray().apply { sort() }.asList()
}

fun IntArray.sorted(): List<Int> {
    return toTypedArray().apply { sort() }.asList()
}

fun ShortArray.sorted(): List<Short> {
    return toTypedArray().apply { sort() }.asList()
}

fun ByteArray.sorted(): List<Byte> {
    return toTypedArray().apply { sort() }.asList()
}
```

Returns an array with all elements of this array sorted descending according to their natural sort order.
their natural sort order.

```java
/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun IntArray.sortedArrayDescending(): IntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun LongArray.sortedArrayDescending(): LongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun FloatArray.sortedArrayDescending(): FloatArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun DoubleArray.sortedArrayDescending(): DoubleArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun CharArray.sortedArrayDescending(): CharArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}
```

```java
/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareBy(selector))
}
```

```java
/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {
    return sortedWith(compareBy(selector))
}
```

```java
/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {
    return sortedWith(compareBy(selector))
}
```

```java
/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {
    return sortedWith(compareBy(selector))
}
```

```java
/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {
    return sortedWith(compareBy(selector))
}
```

```java
/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {
    return sortedWith(compareBy(selector))
}
```

```java
/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {
    return sortedWith(compareBy(selector))
}
```

```java
/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {
    return sortedWith(compareBy(selector))
}
```

```java
/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {
    return sortedWith(compareBy(selector))
}
```
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>> 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 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 sortedArrayWith(reverseOrder()).asList()
}

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 */
public fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 */
public fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 */
public fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 */
public fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted descending 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()
}
Comparator<in Int>): List<Int> { return toTypedArray().apply { sortWith(comparator) }.toTypedArray().asList() * Returns a list of all elements sorted according to the specified [comparator].

LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> { return toTypedArray().apply { sortWith(comparator) }.toTypedArray().asList() * Returns a list of all elements sorted according to the specified [comparator].

FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> { return toTypedArray().apply { sortWith(comparator) }.toTypedArray().asList() * Returns a list of all elements sorted according to the specified [comparator].

CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> { return toTypedArray().apply { sortWith(comparator) }.toTypedArray().asList() * Returns a list of all elements sorted according to the specified [comparator].

ByteArray.asList(): List<Byte> * Returns a hash code based on the contents of this array as if it is a [List].

ShortArray.asList(): List<Short> * Returns a hash code based on the contents of this array as if it is a [List].

IntArray.asList(): List<Int> * Returns a hash code based on the contents of this array as if it is a [List].

LongArray.asList(): List<Long> * Returns a hash code based on the contents of this array as if it is a [List].

FloatArray.asList(): List<Float> * Returns a hash code based on the contents of this array as if it is a [List].

DoubleArray.asList(): List<Double> * Returns a hash code based on the contents of this array as if it is a [List].

BooleanArray.asList(): List<Boolean> * Returns a hash code based on the contents of this array as if it is a [List].

CharArray.asList(): List<Char> * Returns a string representation of the contents of this array as if it is a [List].

LongArray.sortWith(): List<Long> * Returns a list of all elements sorted according to the specified [comparator].

FloatArray.sortWith(): List<Float> * Returns a list of all elements sorted according to the specified [comparator].

DoubleArray.sortWith(): List<Double> * Returns a list of all elements sorted according to the specified [comparator].

BooleanArray.sortWith(): List<Boolean> * Returns a list of all elements sorted according to the specified [comparator].

CharArray.sortWith(): List<Char> * Returns a list of all elements sorted according to the specified [comparator].
[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`.  

```kotlin
public expect infix fun IntArray.contentEquals(other: IntArray): Boolean
```

```kotlin
/**
 * 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`.  

```kotlin
public expect infix fun LongArray.contentEquals(other: LongArray): Boolean
```

```kotlin
/**
 * 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`.  

```kotlin
public expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean
```

```kotlin
/**
 * 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`.  

```kotlin
public expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean
```

```kotlin
/**
 * 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`.  

```kotlin
public expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean
```

```kotlin
/**
 * 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`.  

```kotlin
public expect infix fun CharArray.contentEquals(other: CharArray): Boolean
```

```kotlin
/**
 * Returns a hash code based on the contents of this array as if it is [List].  

```kotlin
public expect fun <T> Array<out T>.contentHashCode(): Int
```

```kotlin
/**
 * Returns a hash code based on the contents of this array as if it is [List].  

```kotlin
public expect fun ByteArray.contentHashCode(): Int
```

```kotlin
/**
 * Returns a hash code based on the contents of this array as if it is [List].  

```kotlin
public expect fun ShortArray.contentHashCode(): Int
```

```kotlin
/**
 * Returns a hash code based on the contents of this array as if it is [List].  

```kotlin
public expect fun IntArray.contentHashCode(): Int
```

```kotlin
/**
 * Returns a hash code based on the contents of this array as if it is [List].  

```kotlin
public expect fun LongArray.contentHashCode(): Int
```

```kotlin
/**
 * Returns a hash code based on the contents of this array as if it is [List].  

```kotlin
public expect fun FloatArray.contentHashCode(): Int
```

```kotlin
/**
 * Returns a hash code based on the contents of this array as if it is [List].  

```kotlin
public expect fun DoubleArray.contentHashCode(): Int
```

```kotlin
/**
 * Returns a hash code based on the contents of this array as if it is [List].  

```kotlin
public expect fun BooleanArray.contentHashCode(): Int
```

```kotlin
/**
 * Returns a hash code based on the contents of this array as if it is [List].  

```kotlin
public expect fun CharArray.contentHashCode(): Int
```

```kotlin
/**
 * Returns a string representation of the contents of the specified array as if it is [List].  

```kotlin
public expect fun ByteArray.contentToString(): String
```

```kotlin
/**
 * Returns a string representation of the contents of the specified array as if it is [List].  

```kotlin
public expect fun ShortArray.contentToString(): String
```

```kotlin
/**
 * Returns a string representation of the contents of the specified array as if it is [List].  

```kotlin
public expect fun IntArray.contentToString(): String
```
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].

* @param destination the array to copy to.

* @param destinationOffset the position in the [destination] array to copy to, 0 by default.

* @param startIndexOf the beginning (inclusive) of the subrange to copy, 0 by default.

* @param endIndexOf the end (exclusive) of the subrange to copy, size of this array by default.

* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset].

* @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @throws 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].

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
specify the subrange so that it overlaps with the destination range.

```kotlin
* @param destination the array to copy to.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws 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.
```
public expect fun LongArray.copyOf(newSize: Int): LongArray

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 */
@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

public expect fun FloatArray.copyOf(newSize: Int): FloatArray

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 */
@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

public expect fun DoubleArray.copyOf(newSize: Int): DoubleArray

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with `false` values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.
 */
@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

public expect fun BooleanArray.copyOf(newSize: Int): BooleanArray

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - 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.
 */
@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

public expect fun CharArray.copyOf(newSize: Int): CharArray

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with `null` values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.
 */
@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

public expect fun <T> Array<T>.copyOf(newSize: Int):

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * 
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
@sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf

public expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * 
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 */
@sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf

public expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * 
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 */
@sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf

public expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * 
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 */
@sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf

public expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * 
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 */
@sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf

public expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * 
 * @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 */
@sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf
array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size` \n * @param toIndex the end of the range (exclusive), must be in `0..array.size` \n *
 */
public expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int):
DoubleArray

/**
 * 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), must be in `0..array.size` \n * @param toIndex the end of the range (exclusive), must be in `0..array.size` \n *
 */
public expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int):
BooleanArray

/**
 * 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), must be in `0..array.size` \n * @param toIndex the end of the range (exclusive), must be in `0..array.size` \n *
 */
public expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int):
CharArray

/**
 * Fills this array or its subrange with the specified \[element\] value.\n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 \[toIndex\].
 */
@SinceKotlin("1.3")
public expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified \[element\] value.\n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 \[toIndex\].
 */
@SinceKotlin("1.3")
public expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified \[element\] value.\n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 \[toIndex\].
 */
@SinceKotlin("1.3")
public expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified \[element\] value.\n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 \[toIndex\].
 */
@SinceKotlin("1.3")
public expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified \[element\] value.\n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 \[toIndex\].
 */
@SinceKotlin("1.3")
public expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified \[element\] value.\n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 \[toIndex\].
 */
@SinceKotlin("1.3")
public expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified \[element\] value.\n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 \[toIndex\].
 */
@SinceKotlin("1.3")
public expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified \[element\] value.\n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), 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 \[toIndex\].
 */
@SinceKotlin("1.3")
public expect fun CopyOnWriteArray.fill(element: CopyOnWriteArray, fromIndex: Int = 0, toIndex: Int = size): Unit

*/
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the array.
*/
public val ShortArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the
 */
public val IntArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the
 */
public val LongArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the
 */
public val FloatArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the
 */
public val DoubleArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the
 */
public val BooleanArray.lastIndex: Int
    get() = size - 1

/**
 * Returns the last valid index for the
 */
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
 * 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
 * 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
 * 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
 * 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
 * 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
 * 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
 * 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
 * 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
 * collection.
 */
public expect operator fun CharArray.plus(elements: Collection<Character>):
    CharArray

/**
 * Returns an array containing all
 * elements of the original array and then all elements of the
 * collection.
 */
public expect operator fun <T> Array<T>.plus(elements:
    Array<T>):
    Array<T>

/**
 * Returns an array containing all
 * elements of the original array and then all elements of the
 * collection.
 */
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
 * collection.
 */
public expect operator fun ShortArray.plus(elements:
    ShortArray):
    ShortArray

*/

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given [elements] array.

public expect operator fun IntArray.plus(elements: IntArray): IntArray

public expect operator fun LongArray.plus(elements: LongArray): LongArray

public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray

public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray

public expect operator fun CharArray.plus(elements: CharArray): CharArray

public expect operator fun ByteArray.plusElement(element: T): ByteArray

public expect fun <T> Array<T>.plusElement(element: T): Array<T>

public expect fun IntArray.sort(): Unit

public expect fun LongArray.sort(): Unit

public expect fun ByteArray.sort(): Unit

public expect fun ShortArray.sort(): Unit

public expect fun DoubleArray.sort(): Unit

public expect fun FloatArray.sort(): Unit

public expect fun CharArray.sort(): Unit

public expect fun <T : Comparable<T>> Array<out T>.sort(): Unit

public expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit

public fun Array<out Boolean>.toBooleanArray(): BooleanArray

public fun Array<out Byte>.toByteArray(): ByteArray

public fun Array<out Char>.toCharArray(): CharArray

public fun Array<out Double>.toDoubleArray(): DoubleArray

public fun Array<out Float>.toFloatArray(): FloatArray

public fun Array<out Int>.toIntArray(): IntArray

public fun Array<out Long>.tolongArray(): LongArray

//...
of the elements of this primitive array.

*public expect fun LongArray.toTypedArray(): Array<Long>

*public expect fun FloatArray.toTypedArray(): Array<Float>

*public expect fun DoubleArray.toTypedArray(): Array<Double>

*public expect fun BooleanArray.toTypedArray(): Array<Boolean>

*public expect fun CharArray.toTypedArray(): Array<Char>

Returns a *typed* object array containing all of the elements of this primitive array.

*public expect fun CharArray.toTypedArray(): Array<Character>

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

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)
}

ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity),
        transform)
}

ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity),
        transform)
}

IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity),
        transform)
}

LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity),
        transform)
}

FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity),
        transform)
}

DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity),
        transform)
}
mapCapacity(size).coerceAtLeast(16) return associateTo(LinkedHashMap<K, V>(capacity),
transform)n

* Returns a [Map] containing key-value pairs provided by [transform] function
If any of two pairs would have the same key the last one gets added to the
map. * * * 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.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy

/*public inline fun <K, V> BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n  val capacity = mapCapacity(size).coerceAtLeast(16) return associateTo(LinkedHashMap<K, V>(capacity),
transform)n

  * Returns a [Map] containing key-value pairs provided by [transform] function
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.

samples.collections.Arrays.Transformations.associateArrayOfPrimitives

/*public inline fun <K, V> CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n  val capacity = mapCapacity(size).coerceAtLeast(16) return associateTo(LinkedHashMap<K, V>(capacity),
transform)n

  * Returns a [Map] containing key-value pairs provided by [transform] function
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.

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy

/*public inline fun <T, K> Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n  val capacity = mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, T>(capacity),
keySelector)n

  * Returns a [Map] containing the elements from the given array indexed by the key
  * returned from [keySelector] function applied to each element. * * * * * If any two elements would have the same key
  * returned by [keySelector] 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.associateArrayOfPrimitivesBy

/*public inline fun <K> ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n  val capacity = mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, Byte>(capacity),
keySelector)n

  * Returns a [Map] containing the elements from the given array indexed by the key
  * returned from [keySelector] function applied to each element. * * * * * If any two elements would have the same key
  * returned by [keySelector] 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.associateArrayOfPrimitivesBy

/*public inline fun <K> ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n  val capacity = mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, Short>(capacity),
keySelector)n

  * Returns a [Map] containing the elements from the given array indexed by the key
  * returned from [keySelector] function applied to each element. * * * * * If any two elements would have the same key
  * returned by [keySelector] 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.associateArrayOfPrimitivesBy

/*public inline fun <K> IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n  val capacity = mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, Int>(capacity),
keySelector)n

  * Returns a [Map] containing the elements from the given array indexed by the key
  * returned from [keySelector] function applied to each element. * * * * * If any two elements would have the same key
  * returned by [keySelector] 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.associateArrayOfPrimitivesBy

/*public inline fun <K> LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n  val capacity = mapCapacity(size).coerceAtLeast(16) return associateByTo(LinkedHashMap<K, Long>(capacity),
keySelector

Returns a [Map] containing the elements from the given array indexed by the key
returned from [keySelector] function applied to each element. If any two elements would have the same key
returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
order of the original array.

samples.collections.Transformations.associateArrayOfPrimitivesBy

public inline fun <K>
FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Float>(capacity),
        keySelector)
}

/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
 * order of the original array.
 * @sample
 */
public inline fun <K>
DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Double>(capacity),
        keySelector)
}

/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
 * order of the original array.
 * @sample
 */
public inline fun <K>
BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Boolean>(capacity),
        keySelector)
}

/**
 * Returns a [Map] containing the elements from the given array indexed by the key
 * returned from [keySelector] function applied to each element. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
 * order of the original array.
 * @sample
 */
public inline fun <K>
CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Char>(capacity),
        keySelector)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by
 * [keySelector] functions applied to elements of the given array. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
 * order of the original array.
 * @sample
 */
public inline
fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform]
 * and indexed by [keySelector] functions applied to elements of the given array. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
 * order of the original array.
 * @sample
 */
public inline
fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform]
 * and indexed by [keySelector] functions applied to elements of the given array. If any two elements would have the same key
 * returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration
 * order of the original array.
 * @sample
 */
public inline
fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}
val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */
public inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */
public inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */
public inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */
public inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */
public inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
        keySelector, valueTransform)
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * The returned map preserves the entry iteration order of the original array.\n */
public inline fun <T, K, M :
MutableMap\<in K, in T\>> Array\<out T\>>.associateByTo\(\text{destination: M, keySelector: (T) -> K}: M \{\text{in } \text{for (element in this) } \{\text{in } \text{destination.put(keySelector(element), element)}\text{in } \text{return destination}\text{in } \text{/**in } \text{* Populates and returns the [destination] mutable map with key-value pairs,\text{in } \text{/**in } \text{* where key is provided by the [keySelector] function applied to each element of the given array\text{in } \text{and value is the element itself.\text{in } \text{/**in } \text{* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\text{in } \text{/**in } \text{* }\text{@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo}}\text{in } \text{*/public inline fun </K, M : MutableMap\<in K, in Byte>> ByteArray.associateByTo\(\text{destination: M, keySelector: (Byte) -> K}: M \{\text{in } \text{for (element in this) } \{\text{in } \text{destination.put(keySelector(element), element)}\text{in } \text{return destination}\text{in } \text{/**in } \text{* Populates and returns the [destination] mutable map with key-value pairs,\text{in } \text{/**in } \text{* where key is provided by the [keySelector] function applied to each element of the given array\text{in } \text{and value is the element itself.\text{in } \text{/**in } \text{* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\text{in } \text{/**in } \text{* }\text{@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo}}\text{in } \text{*/public inline fun </K, M : MutableMap\<in K, in Short>> ShortArray.associateByTo\(\text{destination: M, keySelector: (Short) -> K}: M \{\text{in } \text{for (element in this) } \{\text{in } \text{destination.put(keySelector(element), element)}\text{in } \text{return destination}\text{in } \text{/**in } \text{* Populates and returns the [destination] mutable map with key-value pairs,\text{in } \text{/**in } \text{* where key is provided by the [keySelector] function applied to each element of the given array\text{in } \text{and value is the element itself.\text{in } \text{/**in } \text{* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\text{in } \text{/**in } \text{* }\text{@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo}}\text{in } \text{*/public inline fun </K, M : MutableMap\<in K, in Int>> IntArray.associateByTo\(\text{destination: M, keySelector: (Int) -> K}: M \{\text{in } \text{for (element in this) } \{\text{in } \text{destination.put(keySelector(element), element)}\text{in } \text{return destination}\text{in } \text{/**in } \text{* Populates and returns the [destination] mutable map with key-value pairs,\text{in } \text{/**in } \text{* where key is provided by the [keySelector] function applied to each element of the given array\text{in } \text{and value is the element itself.\text{in } \text{/**in } \text{* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\text{in } \text{/**in } \text{* }\text{@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo}}\text{in } \text{*/public inline fun </K, M : MutableMap\<in K, in Long>> LongArray.associateByTo\(\text{destination: M, keySelector: (Long) -> K}: M \{\text{in } \text{for (element in this) } \{\text{in } \text{destination.put(keySelector(element), element)}\text{in } \text{return destination}\text{in } \text{/**in } \text{* Populates and returns the [destination] mutable map with key-value pairs,\text{in } \text{/**in } \text{* where key is provided by the [keySelector] function applied to each element of the given array\text{in } \text{and value is the element itself.\text{in } \text{/**in } \text{* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\text{in } \text{/**in } \text{* }\text{@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo}}\text{in } \text{*/public inline fun </K, M : MutableMap\<in K, in Float>> FloatArray.associateByTo\(\text{destination: M, keySelector: (Float) -> K}: M \{\text{in } \text{for (element in this) } \{\text{in } \text{destination.put(keySelector(element), element)}\text{in } \text{return destination}\text{in } \text{/**in } \text{* Populates and returns the [destination] mutable map with key-value pairs,\text{in } \text{/**in } \text{* where key is provided by the [keySelector] function applied to each element of the given array\text{in } \text{and value is the element itself.\text{in } \text{/**in } \text{* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\text{in } \text{/**in } \text{* }\text{@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo}}\text{in } \text{*/public inline fun </K, M : MutableMap\<in K, in Double>> DoubleArray.associateByTo\(\text{destination: M, keySelector: (Double) -> K}: M \{\text{in } \text{for (element in this) } \{\text{in } \text{destination.put(keySelector(element), element)}\text{in } \text{return destination}\text{in } \text{/**in } \text{* Populates and returns the [destination] mutable map with key-value pairs,\text{in } \text{/**in } \text{* where key is provided by the [keySelector] function applied to each element of the given array\text{in } \text{and value is the element itself.\text{in } \text{/**in } \text{* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\text{in } \text{/**in } \text{* }\text{@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo}}\text{in } \text{*/public inline fun </K, M : MutableMap\<in K, in Boolean>> BooleanArray.associateByTo\(\text{destination: M, keySelector: (Boolean) -> K}: M \{\text{in } \text{for (element in this) } \{\text{in } \text{destination.put(keySelector(element), element)}\text{in } \text{return destination}\text{in } \text{/**in } \text{* Populates and returns the [destination] mutable map with key-value pairs,\text{in } \text{/**in } \text{* where key is provided by the [keySelector] function applied to each element of the given array\text{in } \text{and value is the element itself.\text{in } \text{/**in } \text{* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\text{in } \text{/**in } \text{* }\text{@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo}}\text{in } \text{*/public
inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to
 * elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last
 * one gets added to the map.
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to
 * elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last
 * one gets added to the map.
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to
 * elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last
 * one gets added to the map.
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to
 * elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last
 * one gets added to the map.
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to
 * elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last
 * one gets added to the map.
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,
 * where key is provided by the [keySelector] function and
 * and value is provided by the [valueTransform] function applied to
 * elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last
 * one gets added to the map.
 */
public inline fun <T, K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\n
public inline fun <K, V, M : MutableMap\n
<K, in V>> DoubleArray.associateByTo(destination: M, keySelector: Double) -> K, valueTransform: (Double) -> V): M {

for (element in this) {
    destination.put(keySelector(element), valueTransform(element))
}

return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, \n where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */

public inline fun <K, V, M : MutableMap\n
<K, in V>> BooleanArray.associateByTo(destination: M, keySelector: Boolean) -> K, valueTransform: (Boolean) -> V): M {

for (element in this) {
    destination.put(keySelector(element), valueTransform(element))
}

return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, \n where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given array.
 * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */

public inline fun <K, V, M : MutableMap\n
<K, in V>> CharArray.associateByTo(destination: M, keySelector: Char) -> K, valueTransform: (Char) -> V): M {

for (element in this) {
    destination.put(keySelector(element), valueTransform(element))
}

return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs.
 * If any two pairs would have the same key the last key gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */

public inline fun <T, K, V, M : MutableMap\n
\<K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {

for (element in this) {
    destination += transform(element)
}

return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs.
 * If any two pairs would have the same key the last key gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */

public inline fun <K, V, M : MutableMap\n
\<K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {

for (element in this) {
    destination += transform(element)
}

return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs.
 * If any two pairs would have the same key the last key gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */

public inline fun <K, V, M : MutableMap\n
\<K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {

for (element in this) {
    destination += transform(element)
}

return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs.
 * If any two pairs would have the same key the last key gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */

public inline fun <K, V, M : MutableMap\n
\<K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {

for (element in this) {
    destination += transform(element)
}

return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs.
 * If any two pairs would have the same key the last key gets added to the map.
 * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */

public inline fun <K, V, M : MutableMap\n
\<K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {

for (element in this) {
    destination += transform(element)
}

return destination
}
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

/*\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the map.
 */
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array.
 * If any of two pairs would have the same key the last one gets added to the map.
 */
public inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <T, C : Collection<in T>> Array<out T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : Collection<in Byte>> ByteArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : Collection<in Short>> ShortArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : Collection<in Int>> IntArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : Collection<in Long>> LongArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : Collection<in Byte>> ByteArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : Collection<in Char>> CharArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : Collection<in Float>> FloatArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : Collection<in Double>> DoubleArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection.
 */
public fun <C : Collection<in Boolean>> BooleanArray.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun <T> Array<out T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun ByteArray.toHashSet(): HashSet<Byte> {
    return toCollection(HashSet<Byte>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun ShortArray.toHashSet(): HashSet<Short> {
    return toCollection(HashSet<Short>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun IntArray.toHashSet(): HashSet<Int> {
    return toCollection(HashSet<Int>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun LongArray.toHashSet(): HashSet<Long> {
    return toCollection(HashSet<Long>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun FloatArray.toHashSet(): HashSet<Float> {
    return toCollection(HashSet<Float>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun DoubleArray.toHashSet(): HashSet<Double> {
    return toCollection(HashSet<Double>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun BooleanArray.toHashSet(): HashSet<Boolean> {
    return toCollection(HashSet<Boolean>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun CharArray.toHashSet(): HashSet<Char> {
    return toCollection(HashSet<Char>(mapCapacity(size)))
}
toCollection(HashSet<Long>(mapCapacity(size)))

/**
 * Returns a [HashSet] of all elements.
 */
public fun FloatArray.toHashSet(): HashSet<Float> {
    return toCollection(HashSet<Float>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun DoubleArray.toHashSet(): HashSet<Double> {
    return toCollection(HashSet<Double>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun BooleanArray.toHashSet(): HashSet<Boolean> {
    return toCollection(HashSet<Boolean>(mapCapacity(size)))
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun CharArray.toHashSet(): HashSet<Char> {
    return toCollection(HashSet<Char>(mapCapacity(size)))
}

/**
 * Returns a [List] containing all elements.
 */
public fun <T> Array<out T>.toList(): List<T> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun ByteArray.toList(): List<Byte> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun ShortArray.toList(): List<Short> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun IntArray.toList(): List<Int> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun LongArray.toList(): List<Long> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun FloatArray.toList(): List<Float> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun DoubleArray.toList(): List<Double> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun BooleanArray.toList(): List<Boolean> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [List] containing all elements.
 */
public fun CharArray.toList(): List<Char> {
    return when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun <T> Array<out T>.toMutableList(): MutableList<T> {
    return ArrayList(this.asCollection())
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ByteArray.toMutableList(): MutableList<Byte> {
    val list = ArrayList<Byte>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ShortArray.toMutableList(): MutableList<Short> {
    val list = ArrayList<Short>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun IntArray.toMutableList(): MutableList<Int> {
    val list = ArrayList<Int>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun LongArray.toMutableList(): MutableList<Long> {
    val list = ArrayList<Long>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun FloatArray.toMutableList(): MutableList<Float> {
    val list = ArrayList<Float>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun DoubleArray.toMutableList(): MutableList<Double> {
    val list = ArrayList<Double>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun BooleanArray.toMutableList(): MutableList<Boolean> {
    val list = ArrayList<Boolean>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun CharArray.toMutableList(): MutableList<Char> {
    val list = ArrayList<Char>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [Set] of all elements.
 */
public fun <T> Array<out T>.toSet(): Set<T> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))
    }
}

/**
 * Returns a [Set] of all elements.
 */
public fun ByteArray.toSet(): Set<Byte> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Byte>(mapCapacity(size)))
    }
}

/**
 * Returns a [Set] of all elements.
 */
public fun ShortArray.toSet(): Set<Short> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Short>(mapCapacity(size)))
    }
}

/**
 * Returns a [Set] of all elements.
 */
public fun IntArray.toSet(): Set<Int> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Int>(mapCapacity(size)))
    }
}

/**
 * Returns a [Set] of all elements.
 */
public fun LongArray.toSet(): Set<Long> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))
    }
}

/**
 * Returns a [Set] of all elements.
 */
public fun FloatArray.toSet(): Set<Float> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))
    }
}

/**
 * Returns a [Set] of all elements.
 */
public fun DoubleArray.toSet(): Set<Double> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))
    }
}

/**
 * Returns a [Set] of all elements.
 */
public fun BooleanArray.toSet(): Set<Boolean> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
    }
}

/**
 * Returns a [Set] of all elements.
 */
public fun CharArray.toSet(): Set<Char> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Char>(mapCapacity(size)))
    }
}
The returned set preserves the element iteration order of the original array.

```kotlin
public fun ByteArray.toSet(): Set<Byte> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Byte>(mapCapacity(size)))
    }
}
```

```kotlin
/**
 * Returns a [Set] of all elements.
 * 
 * The returned set preserves the element iteration order of the original array.
 */
public fun ShortArray.toSet(): Set<Short> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Short>(mapCapacity(size)))
    }
}
```

```kotlin
/**
 * Returns a [Set] of all elements.
 * 
 * The returned set preserves the element iteration order of the original array.
 */
public fun IntArray.toSet(): Set<Int> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Int>(mapCapacity(size)))
    }
}
```

```kotlin
/**
 * Returns a [Set] of all elements.
 * 
 * The returned set preserves the element iteration order of the original array.
 */
public fun LongArray.toSet(): Set<Long> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))
    }
}
```

```kotlin
/**
 * Returns a [Set] of all elements.
 * 
 * The returned set preserves the element iteration order of the original array.
 */
public fun FloatArray.toSet(): Set<Float> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))
    }
}
```

```kotlin
/**
 * Returns a [Set] of all elements.
 * 
 * The returned set preserves the element iteration order of the original array.
 */
public fun DoubleArray.toSet(): Set<Double> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))
    }
}
```

```kotlin
/**
 * Returns a [Set] of all elements.
 * 
 * The returned set preserves the element iteration order of the original array.
 */
public fun BooleanArray.toSet(): Set<Boolean> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
    }
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```

```kotlin
/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.
 */
public inline fun DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
```
Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.

```kotlin
public inline fun <R> BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

public inline fun <R> CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

public inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

public inline fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

public inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

public inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

public inline fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
```

Groups elements of the original array by the key returned by the given [keySelector] function

```kotlin
public inline fun <T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}
```

The returned map preserves the entry iteration order of the keys produced from the original array.

```kotlin
val list = transform(element)
```

Groups elements of the original array by the key returned by the given [keySelector] function

```kotlin
return groupByTo(LinkedHashMap<K, MutableList<T>>(()), keySelector)
```
each group key is associated with a list of corresponding elements. The returned map preserves the entry iteration order of the keys produced from the original array.

```kotlin
ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {
    return groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector)
}

ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {
    return groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)
}

IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {
    return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)
}

LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {
    return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)
}

FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {
    return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)
}

DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {
    return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)
}

BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {
    return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)
}

CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {
    return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)
}
```

The returned map preserves the entry iteration order of the keys produced from the original array.

```kotlin
samples.collections.Collections.Transformations.groupBy

/*
 * Groups elements of the array by the key returned by the
 * given [keySelector] function and returns a map where each group key is associated with
 * a list of corresponding elements. The returned map preserves the entry iteration order of the keys produced from the original array.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun <T, K, V> T.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}
```
Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {
    return groupByTo(<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * 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 returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {
    return groupByTo(<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * 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 returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <K, V> ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {
    return groupByTo(<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * 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 returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <K, V> IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {
    return groupByTo(<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * 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 returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <K, V> LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {
    return groupByTo(<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * 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 returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <K, V> FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {
    return groupByTo(<K, MutableList<V>>(), keySelector, valueTransform)
}

/**
 * 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 returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original array.
 */
public inline fun <K, V> DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {
    return groupByTo(<K, MutableList<V>>(), keySelector, valueTransform)
}
samples.collections.Collections.Transformations.groupByKeyAndValues\n*

/**
 * 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 each element and puts to the
 [destination] map each group key associated with a list of corresponding elements.
 */

public inline fun <K, V, M : MutableMap<K, List<V>>> Array<out V>.groupByTo(destination: M, keySelector: (V) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(element)
    }
    return destination
}

public inline fun <K, M : MutableMap<K, MutableList<V>>> Array<out V>.groupByTo(destination: M, keySelector: (V) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(element)
    }
    return destination
}

public inline fun <K, M : MutableList<V>, V> Array<out V>.groupByTo(destination: M, keySelector: (V) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the
 [destination] map each group key associated with a list of corresponding elements.
 */

public inline fun <K, M : MutableList<V>, V> Array<out V>.groupByTo(destination: M, keySelector: (V) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the
 [destination] map each group key associated with a list of corresponding elements.
 */

public inline fun <K, M : MutableList<V>, V> Array<out V>.groupByTo(destination: M, keySelector: (V) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the
 [destination] map each group key associated with a list of corresponding elements.
 */

public inline fun <K, M : MutableList<V>, V> Array<out V>.groupByTo(destination: M, keySelector: (V) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the
 [destination] map each group key associated with a list of corresponding elements.
 */

public inline fun <K, M : MutableList<V>, V> Array<out V>.groupByTo(destination: M, keySelector: (V) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the
 [destination] map each group key associated with a list of corresponding elements.
 */

public inline fun <K, M : MutableList<V>, V> Array<out V>.groupByTo(destination: M, keySelector: (V) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function
 * applied to each element and puts to the
 [destination] map each group key associated with a list of corresponding elements.
 */

public inline fun <K, M : MutableList<V>, V> Array<out V>.groupByTo(destination: M, keySelector: (V) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(element)
    }
    return destination
}
@return The [destination] map.

/*public inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Double>() }
        list.add(element)
    }
    return destination
}*/

public inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Double>() }
        list.add(element)
    }
    return destination
}

/**
* Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.

* @return The [destination] map.
* @sample samples.collections.Collections.Transformations.groupBy
*/

public inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Boolean>() }
        list.add(element)
    }
    return destination
}

/**
* Groups elements of the original array by the key returned by the given [keySelector] function * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
* @return The [destination] map.
* @sample samples.collections.Collections.Transformations.groupBy
*/

public inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Char>() }
        list.add(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.groupByKeysAndValues
*/

public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> 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.groupByKeysAndValues
*/

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> 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.groupByKeysAndValues
*/

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> 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.groupByKeysAndValues
*/

public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    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.Transformations.groupByKeysAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    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.Transformations.groupByKeysAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    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.Transformations.groupByKeysAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    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 on * using the specified [keySelector] function to extract a key from each element.
 * 
 * @return The Grouping source.
 * 
 * @sample samples.collections.Transformations.groupByTo
 */
@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.
 * 
 * @return A list containing the results of applying
 * the given [transform] function to each element in the original array.
 * 
 * @sample samples.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.
 * 
 * @return A list containing the results of applying
 * the given [transform] function to each element in the original array.
 * 
 * @sample samples.collections.Transformations.map
 */
public inline fun <T, 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.
 * 
 * @return A list containing the results of applying
 * the given [transform] function to each element in the original array.
 * 
 * @sample samples.collections.Transformations.map
 */
public inline fun <T, R> ShortArray.map(transform: (Short) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}
the results of applying the given [transform] function\n to each element in the original array.\n * @sample

samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> IntArray.map(transform: (Int) ->
R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n/**
 * Returns a list containing the results of applying the given [transform] function\n to each element in the original array.\n * @sample

samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> LongArray.map(transform:
(Long) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n/**
 * Returns a list containing the results of applying the given [transform] function\n to each element in the original array.\n * @sample

samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> FloatArray.map(transform:
(Float) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n/**
 * Returns a list containing the results of applying the given [transform] function\n to each element in the original array.\n * @sample

samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> DoubleArray.map(transform:
(Double) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n/**
 * Returns a list containing the results of applying the given [transform] function\n to each element in the original array.\n * @sample

samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> BooleanArray.map(transform:
(Boolean) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\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 \n
[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/**
 * 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 \n
[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.map(transform:
(Char) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(size), transform)\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 \n
[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/**
 * 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 \n
[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/**
 * 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 \n
[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/**
 * 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 \n
[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/**
 * 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 \n
[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/**
 * 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 \n
[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}
array.

* @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  */
public inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)\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  */
public inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)\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  */
public inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)\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  */
public inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)\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  */
public inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)\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  */
public inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)\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  */
public inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)\n}
[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<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<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<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.
*/
public inline fun <T, R : Any> Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each element in
* the original array
* and appends only the non-null results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
ShortArray.mapTo(destination: C, transform: (Short) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
IntArray.mapTo(destination: C, transform: (Int) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
LongArray.mapTo(destination: C, transform: (Long) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
FloatArray.mapTo(destination: C, transform: (Float) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
CharArray.mapTo(destination: C, transform: (Char) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
ShortArray.mapTo(destination: C, transform: (Short) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
IntArray.mapTo(destination: C, transform: (Int) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
LongArray.mapTo(destination: C, transform: (Long) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
FloatArray.mapTo(destination: C, transform: (Float) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].
*/
public inline fun <R, C : MutableCollection<R>>
DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
C \n for (item in this) \n destination.add(transform(item)) \n return destination

* Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

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* Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.
DoubleArray.distinct(): List<Double> {
    return this.toMutableSet().toList()
}  

/**  
 * Returns a list containing only distinct elements from the given array.  
 * 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 fun DoubleArray.distinct(): List<Double> {
    return this.toMutableSet().toList()
}  

/**  
 * Returns a list containing only distinct elements from the given array.  
 * 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 fun CharArray.distinct(): List<Char> {
    return this.toMutableSet().toList()
}  

/**  
 * Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function.  
 * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy
 */
public inline fun <T, K> T.distinctBy(selector: (T) -> K): List<T> {
    val set = HashSet<K>()
    val list = ArrayList<T>()
    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.  
 * @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.  
 * @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.  
 * @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.  
 * @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.  
 * @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.  
 * @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
}
returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array. The elements in the resulting list are in the same order as they were in the source array.

```kotlin
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.

samples.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 list containing all elements that are contained by both this array and the specified collection.

Here is an example of how to get a set containing all elements that are contained at least in one of these collections:

```kotlin
samples.collections.Collections.Transformations.union

public infix fun <T>
Array<out T>.union(other: Collection<T>): Set<T> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

returns a set containing all elements that are contained at least in one of these collections use [union]. The returned set preserves the element iteration order of the original array.

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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. *\n
public infix fun \langle T\rangle.subtract(other: Iterable\langle T\rangle): Set\langle T\rangle {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\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. *\n
public infix fun ByteArray.subtract(other: Iterable\langle Byte\rangle): Set\langle Byte\rangle {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\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. *\n
public infix fun ShortArray.subtract(other: Iterable\langle Short\rangle): Set\langle Short\rangle {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\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. *\n
public infix fun IntArray.subtract(other: Iterable\langle Int\rangle): Set\langle Int\rangle {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\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. *\n
public infix fun ByteArray.substring(other: Iterable\langle Byte\rangle): Set\langle Byte\rangle {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\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. *\n
public infix fun BooleanArray.substring(other: Iterable\langle Boolean\rangle): Set\langle Boolean\rangle {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\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. *\n
public infix fun CharArray.subtract(other: Iterable\langle Char\rangle): Set\langle Char\rangle {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\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. *\n
public infix fun DoubleArray.subtract(other: Iterable\langle Double\rangle): Set\langle Double\rangle {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\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. *\n
public infix fun \langle T\rangle .toMutableSet(): MutableSet\langle T\rangle {\n    val set = LinkedHashSet\langle T\rangle (mapCapacity(size))\n    for (item in this) set.add(item)\n    return set\n}\n
Returns a mutable set containing all distinct elements from the given array. *\n
The returned set preserves the element iteration order of the original array. *\n
public fun \langle T\rangle .add(item: \langle T\rangle ) {\n    if (!contains(item)) set.add(item)\n}\n
Adds the specified element to the set if it is not already present. *\n
The returned set preserves the element iteration order of the original array. *\n
public fun \langle T\rangle .removeAll(other: Collection\langle T\rangle ) {\n    val set = LinkedHashSet\langle T\rangle (mapCapacity(size))\n    for (item in this) set.add(item)\n    return set\n}\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. *\n
public fun \langle T\rangle .retainAll(other: Collection\langle T\rangle ) {\n    val set = LinkedHashSet\langle T\rangle (mapCapacity(size))\n    for (item in this) set.add(item)\n    return set\n}\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. *
the given array.

The returned set preserves the element iteration order of the original array.

Returns a mutable set containing all distinct elements from the given array.

The returned set preserves the element iteration order of the original array.

Returns a set containing all distinct elements from both collections.

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].

Returns a set containing all distinct elements from both collections.

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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].

Infix fun CharArray.union(other: Iterable<Char>): Set<Char> { val set = this.toMutableSet() set.addAll(other) return set }

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Infix fun CharArray.union(other: Iterable<Char>): Set<Char> { val set = this.toMutableSet() set.addAll(other) return set }

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].
 *
 * @param samples.collections.Collections.Aggregates.all
 */
public 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].
 *
 * @param samples.collections.Collections.Aggregates.all
 */
public 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].
 *
 * @param samples.collections.Collections.Aggregates.all
 */
public 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].
 *
 * @param samples.collections.Collections.Aggregates.all
 */
public fun IntArray.all(predicate: (Int) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given [predicate].
 *
 * @param samples.collections.Collections.Aggregates.all
 */
public fun LongArray.all(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given [predicate].
 *
 * @param samples.collections.Collections.Aggregates.all
 */
public fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given [predicate].
 *
 * @param samples.collections.Collections.Aggregates.all
 */
public fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given [predicate].
 *
 * @param samples.collections.Collections.Aggregates.all
 */
public fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given [predicate].
 *
 * @param samples.collections.Collections.Aggregates.all
 */
public fun CharArray.all(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if array has at least one element.
 *
 * @param samples.collections.Collections.Aggregates.any
 */
public fun <T> Array<out T>.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if array has at least one element.
 *
 * @param samples.collections.Collections.Aggregates.any
 */
public fun ByteArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if array has at least one element.
 *
 * @param samples.collections.Collections.Aggregates.any
 */
public fun ShortArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if array has at least one element.
 *
 * @param samples.collections.Collections.Aggregates.any
 */
public fun IntArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if array has at least one element.
 *
 * @param samples.collections.Collections.Aggregates.any
 */
public fun LongArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if array has at least one element.
 *
 * @param samples.collections.Collections.Aggregates.any
 */
public fun FloatArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if array has at least one element.
 *
 * @param samples.collections.Collections.Aggregates.any
 */
public fun DoubleArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if array has at least one element.
 *
 * @param samples.collections.Collections.Aggregates.any
 */
public fun BooleanArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if array has at least one element.
 *
 * @param samples.collections.Collections.Aggregates.any
 */
public fun CharArray.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * @param samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun <T> Array<out T>.anyWithPredicate(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

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/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 */
public inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 */
public inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 */
public inline fun IntArray.any(predicate: (Int) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 */
public inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 */
public inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 */
public inline fun DoubleArray.any(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 */
public inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * 
 * @sample
 */
public inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.count(): Int {
    return size
}

/**
 * Returns the number of elements in this array.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.count(): Int {
    return size
}

/**
 * Returns the number of elements matching the given [predicate].
 */
public inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
public inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
public inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
public inline fun IntArray.count(predicate: (Int) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
public inline fun LongArray.count(predicate: (Long) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
accumulator = operation(index++, accumulator, element)\n    return accumulator\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* @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* @paramaccumulator\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* @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* 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* @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* 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* @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* 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* @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* 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* @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* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n* @paramaccumulator\n\n* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n* @paramaccumulator\n\n* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n* @paramaccumulator\n\n* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n* @paramaccumulator\n\n* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n* 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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)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current 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(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.
 */
public inline fun <R> CharArray.foldRight(initial: R, operation: (Char, 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.
 */
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.
 */
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.
 */
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.
 */
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.
 */
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
}
left\texttt{fn} * to each element with its index in the original array and current accumulator value.\texttt{fn} * @param \texttt{operation} function that takes the index of an element, the element itself\texttt{fn} * and current accumulator value, and calculates the next accumulator value.\texttt{fn} * @\public inline fun \texttt{R} LongArray.foldRightIndexed(initial: \texttt{R}, \texttt{operation}: \texttt{(index: Int, \texttt{Long}, \texttt{acc: R}) -> \texttt{R}}): \texttt{R} \texttt{fn} var \texttt{index} = \texttt{lastIndex} while (\texttt{index} >= 0) \texttt{fn} accumulator = \texttt{operation(index, get(index), accumulator)}\texttt{fn} --\texttt{index} \texttt{fn} return accumulator\texttt{fn} \texttt{fn} * \texttt{Accumulates value starting with \texttt{initial} value and applying \texttt{operation} from right to left\texttt{fn} * to each element with its index in the original array and current accumulator value.\texttt{fn} * @\public inline fun \texttt{R} FloatArray.foldRightIndexed(initial: \texttt{R}, \texttt{operation}: \texttt{(index: Int, \texttt{Float}, \texttt{acc: R}) -> \texttt{R}}): \texttt{R} \texttt{fn} var \texttt{index} = \texttt{lastIndex} while (\texttt{index} >= 0) \texttt{fn} accumulator = \texttt{operation(index, get(index), accumulator)}\texttt{fn} --\texttt{index} \texttt{fn} return accumulator\texttt{fn} \texttt{fn} * \texttt{Accumulates value starting with \texttt{initial} value and applying \texttt{operation} from right to left\texttt{fn} * to each element with its index in the original array and current accumulator value.\texttt{fn} * @\public inline fun \texttt{R} DoubleArray.foldRightIndexed(initial: \texttt{R}, \texttt{operation}: \texttt{(index: Int, \texttt{Double}, \texttt{acc: R}) -> \texttt{R}}): \texttt{R} \texttt{fn} var \texttt{index} = \texttt{lastIndex} while (\texttt{index} >= 0) \texttt{fn} accumulator = \texttt{operation(index, get(index), accumulator)}\texttt{fn} --\texttt{index} \texttt{fn} return accumulator\texttt{fn} \texttt{fn} * \texttt{Accumulates value starting with \texttt{initial} value and applying \texttt{operation} from right to left\texttt{fn} * to each element with its index in the original array and current accumulator value.\texttt{fn} * @\public inline fun \texttt{R} BooleanArray.foldRightIndexed(initial: \texttt{R}, \texttt{operation}: \texttt{(index: Int, \texttt{Boolean}, \texttt{acc: R}) -> \texttt{R}}): \texttt{R} \texttt{fn} var \texttt{index} = \texttt{lastIndex} while (\texttt{index} >= 0) \texttt{fn} accumulator = \texttt{operation(index, get(index), accumulator)}\texttt{fn} --\texttt{index} \texttt{fn} return accumulator\texttt{fn} \texttt{fn} * \texttt{Accumulates value starting with \texttt{initial} value and applying \texttt{operation} from right to left\texttt{fn} * to each element with its index in the original array and current accumulator value.\texttt{fn} * @\public inline fun \texttt{R}CharArray.foldRightIndexed(initial: \texttt{R}, \texttt{operation}: \texttt{(index: Int, \texttt{Char}, \texttt{acc: R}) -> \texttt{R}}): \texttt{R} \texttt{fn} var \texttt{index} = \texttt{lastIndex} while (\texttt{index} >= 0) \texttt{fn} accumulator = \texttt{operation(index, get(index), accumulator)}\texttt{fn} --\texttt{index} \texttt{fn} return accumulator\texttt{fn} \texttt{fn} * \texttt{Accumulates value starting with \texttt{initial} value and applying \texttt{operation} from right to left\texttt{fn} * to each element with its index in the original array and current accumulator value.\texttt{fn} * @\public inline fun \texttt{R}ByteArray.forEach(action: \texttt{(Byte) -> Unit}): \texttt{Unit} \texttt{fn} for (element in this) \texttt{fn} action(element)\texttt{fn} \texttt{fn} * \texttt{Performs the given \texttt{action} on each element.}\texttt{fn} * @\public inline fun \texttt{R} ShortArray.forEach(action: \texttt{(Short) -> Unit}): \texttt{Unit} \texttt{fn} for (element in this) \texttt{fn} action(element)\texttt{fn} \texttt{fn} * \texttt{Performs the given \texttt{action} on each element.}\texttt{fn} * @\public inline fun \texttt{R} IntArray.forEach(action: \texttt{(Int) -> Unit}): \texttt{Unit} \texttt{fn} for (element in this) \texttt{fn} action(element)\texttt{fn} \texttt{fn} * \texttt{Performs the given \texttt{action} on each element.}\texttt{fn} * @\public inline fun \texttt{R} LongArray.forEach(action: \texttt{(Long) -> Unit}): \texttt{Unit} \texttt{fn} for (element in this) \texttt{fn} action(element)\texttt{fn} \texttt{fn} * \texttt{Performs the given \texttt{action} on each element.}\texttt{fn} * @\public inline fun \texttt{R} FloatArray.forEach(action: \texttt{(Float) -> Unit}): \texttt{Unit} \texttt{fn} for (element in this) \texttt{fn} action(element)\texttt{fn} \texttt{fn} * \texttt{Performs the given \texttt{action} on each element.}\texttt{fn} * @\public inline fun \texttt{R} DoubleArray.forEach(action: \texttt{(Double) -> Unit}): \texttt{Unit} \texttt{fn} for (element in this) \texttt{fn} action(element)\texttt{fn} \texttt{fn} * \texttt{Performs the given \texttt{action} on each element.}\texttt{fn} * @\public inline fun \texttt{R} BooleanArray.forEach(action: \texttt{(Boolean) -> Unit}): \texttt{Unit} \texttt{fn} for (element in this) \texttt{fn} action(element)\texttt{fn} \texttt{fn} * \texttt{Performs the given \texttt{action} on each element.}\texttt{fn} * @\public inline fun \texttt{R}CharArray.forEach(action: \texttt{(Char) -> Unit}): \texttt{Unit} \texttt{fn} for (element in this) \texttt{fn} action(element)\texttt{fn} \texttt{fn} * \texttt{Performs the given \texttt{action} on each element.}
performs the desired action on the element.

```kotlin
public fun <T : Comparable<T>> Array<out T>.max(): T? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

If any of elements is `null` returns `null`.

```kotlin
@SinceKotlin("1.1")
public fun Array<out Double>.max(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    if (max.isNaN()) return max
    for (i in 1..lastIndex) {
        val e = this[i]
        if (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}
```

If any of elements is `NaN` returns `NaN`.

```kotlin
@SinceKotlin("1.1")
public fun Array<out Float>.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    if (max.isNaN()) return max
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

If any of elements is `NaN` returns `NaN`.

```kotlin
@.SinceKotlin("1.1")
public fun Array<out Byte>.max(): Byte? {
    if (isEmpty()) return null
    var max = this[0]
    if (max.isNaN()) return max
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

The largest element or `null` if there are no elements.
if (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
public fun DoubleArray.max(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun CharArray.max(): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
public fun <T, R : Comparable<R>> Array<T>.maxBy(selector: (T) -> R?): T? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
public fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R?): Byte? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
public fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R?): Short? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
public fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R?): Int? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
public fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R?): Long? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
public fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R?): Float? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```kotlin
maxValue = \nreturn maxElem

val lastIndex = this.lastIndex
if (lastIndex == 0) return maxElem

maxValue = selector(maxElem) for (i in 1..lastIndex) {
val e = this[i]
val v = selector(e)
if (maxValue < v) {
maxValue = e
maxValue = \n\nreturn maxElem

@SinceKotlin("1.1")
public fun Array<out Double>.min(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the smallest element or `null` if there are no elements.
 * 
 * If any of elements
 */
public fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {
    if (isEmpty()) return null
    var maxElem = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(maxElem, e) < 0)
            maxElem = e
    }
    return maxElem
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
public fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {
    if (isEmpty()) return null
    var maxElem = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(maxElem, e) < 0)
            maxElem = e
    }
    return maxElem
}
```

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smaller element or `null` if there are no elements.\n* \n* If any of elements is `NaN` returns `NaN`.

*\n@SinceKotlin("1.1") fun public fun Array<out Float>.min(): Float? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun ByteArray.min(): Byte? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun ShortArray.min(): Short? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun IntArray.min(): Int? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun ByteArray.min(): Byte? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun T>.min(): T? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public function LongArray.min(): Long? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public function CharArray.min(): Char? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public function FloatArray.min(): Float? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public function DoubleArray.min(): Double? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public function <T : Comparable<T>> Array<out T>.min(): T? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun Array<out Float>.min(): Float? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun <R : Comparable<R>> Array<out R>.min(): R? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun <T, R : Comparable<R>> Array<out T>.min(): T? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun ByteArray.min(): Byte? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun ShortArray.min(): Short? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun IntArray.min(): Int? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun ByteArray.min(): Byte? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun T>.min(): T? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun <T : Comparable<T>> Array<out T>.min(): T? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun <R : Comparable<R>> Array<out R>.min(): R? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun <T, R : Comparable<R>> Array<out T>.min(): T? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun ByteArray.min(): Byte? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.\n
*\n=`fun public fun ShortArray.min(): Short? {\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
This function is a public function that returns the smallest element or `null` if there are no elements.
```kotlin
minValue = v
}
return minElem

/**
 * Returns the first element yielding the smallest value of the given function or 'null' if there are no elements.
 */
public inline fun <R : Comparable<R>>
LongArray.minBy(selector: (Long) -> R): Long? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndexOf = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndexOf) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or 'null' if there are no elements.
 */
public inline fun <R : Comparable<R>>
FloatArray.minBy(selector: (Float) -> R): Float? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndexOf = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndexOf) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or 'null' if there are no elements.
 */
public inline fun <R : Comparable<R>>
DoubleArray.minBy(selector: (Double) -> R): Double? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndexOf = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndexOf) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or 'null' if there are no elements.
 */
public inline fun <R : Comparable<R>>
BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndexOf = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndexOf) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or 'null' if there are no elements.
 */
public inline fun <R : Comparable<R>>
CharArray.minBy(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndexOf = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndexOf) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or 'null' if there are no elements.
 */
public fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or 'null' if there are no elements.
 */
public fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or 'null' if there are no elements.
 */
public fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or 'null' if there are no elements.
 */
public fun IntArray.minWith(comparator: Comparator<in Int>): Int? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or 'null' if there are no elements.
 */
public fun LongArray.minWith(comparator: Comparator<in Long>): Long? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
```
return min

*

Returns the first element having the smallest value according to the provided \[comparator\] or `null` if there are no elements.

/**
 * Returns the first element having the smallest value according to the provided \[comparator\] or `null` if there are no elements.
 */
public fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided \[comparator\] or `null` if there are no elements.
 */
public fun DoubleArray.minWith(comparator: Comparator<in Double>): Double? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided \[comparator\] or `null` if there are no elements.
 */
public fun BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the smallest value according to the provided \[comparator\] or `null` if there are no elements.
 */
public fun CharArray.minWith(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun <T> Array<out T>.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun ByteArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun ShortArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun IntArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun LongArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun FloatArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample
 */
public fun DoubleArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if no elements match the given \[predicate\].
 * 
 * @sample
 */
public inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given \[predicate\].
 * 
 * @sample
 */
public inline fun ByteArray.none(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given \[predicate\].
 * 
 * @sample
 */
public inline fun ShortArray.none(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given \[predicate\].
 * 
 * @sample
 */
public inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given \[predicate\].
 * 
 * @sample
 */
public inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given \[predicate\].
 * 
 * @sample
 */
public inline fun FloatArray.none(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given \[predicate\].
 * 
 * @sample
 */
public inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given \[predicate\].
 * 
 * @sample
 */
public inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given \[predicate\].
 * 
 * @sample
 */
public inline fun CharArray.none(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}
samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun FloatArray.none(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

* Returns `true` if no elements match the given [predicate].

samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

* Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.

samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun <S, T : S> Array<out T>.reduce(operation: (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(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.

samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun ByteArray.reduce(operation: (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(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.

samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun ShortArray.reduce(operation: (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(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.

samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun IntArray.reduce(operation: (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(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.

    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.

samples.collections.Collections.Aggregates.reduce\n *\npublic 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.

samples.collections.Collections.Aggregates.reduce\n *\npublic 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.
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
}

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
}

Array<out Any>.reduceIndexed(operation: (index: Int, acc: Any, Any) -> Any): Any { 
    if (isEmpty()) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: Any = this[0] for (index in 1..lastIndex) { 
        accumulator = operation(index, accumulator, this[index])
    } return accumulator
}

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
}

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
}

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
}

    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
}

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
}
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.
 * @param [operation] function that takes the index of an element, current accumulator value and a
 * sample elements.
 * 
 * @sample sample.solutions.Collections.Aggregates.reduce
 */
public inline fun DoubleArray.reduceIndexed(operation: (index: Int, 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(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.
 * @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 BooleanArray.reduceIndexed(operation: (index: Int, 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(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. Returns null if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S? {
    if (isEmpty())
        return null
    var accumulator: S = 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.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {
    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.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {
    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.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {
    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.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun CharArray.reduceIndexed(operation: (index: Int, 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(index, accumulator, this[index])
    }
    return accumulator
}
element. Returns null if the array is empty.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
    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.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {
    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.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {
    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.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public 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.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
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. Returns null if the array is empty.

```kotlin
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. Returns null if the array is empty.

```kotlin
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: Byte = 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. Returns null if the array is empty.

```kotlin
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: Short = 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. Returns null if the array is empty.

```kotlin
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: Int = 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. Returns null if the array is empty.
(Int, acc: Int) -> Int: Int \n {\n    var index = lastIndex
    if (index < 0) throw
    var accumulator = get(index--)
    while (index >= 0) \n    {\n        accumulator = operation(get(index--), accumulator)
    }\n    return accumulator
}\n
/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current
 * accumulator value.\n * @param \* @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)
    while (index >= 0) \n    {\n        accumulator = operation(get(index--), accumulator)
    }\n    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current
 * accumulator value.\n * @param \* @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)
    while (index >= 0) \n    {\n        accumulator = operation(get(index--), accumulator)
    }\n    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current
 * accumulator value.\n * @param \* @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)
    while (index >= 0) \n    {\n        accumulator = operation(get(index--), accumulator)
    }\n    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current
 * accumulator value.\n * @param \* @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)
    while (index >= 0) \n    {\n        accumulator = operation(get(index--), accumulator)
    }\n    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current
 * accumulator value.\n * @param \* @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)
    while (index >= 0) \n    {\n        accumulator = operation(get(index--), accumulator)
    }\n    return accumulator
}
current accumulator value, and calculates the next accumulator value.

```kotlin
public inline fun ShortArray.reduceRightIndexed(operation: (index: Int, 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(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

```kotlin
public inline fun IntArray.reduceRightIndexed(operation: (index: Int, 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(index, get(index), accumulator)
        --index
    }
    return accumulator
}
```

```kotlin
    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
}
```

```kotlin
public inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {
    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
}
```

```kotlin
public inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {
    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
}
```

```kotlin
public inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {
    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
}
```
samples.collections.Collections.Aggregates.reduceRight

```kotlin
/*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi
public inline fun CharArray.reduceRightIndexed(operation: (Int, Char, Char) -> Char): Char
    \n    { \n        \n        if (index < 0) throw UnsupportedOperationError("Empty array can't be reduced.")\n        \n        var accumulator = get(index--) while (index >= 0) \n        \n        \n        return accumulator\n    }\n
    *\n
    var index = lastIndex\n    \n    if (index < 0) return null\n    \n    var accumulator = get(index--) while (index >= 0) \n    \n    \n    return accumulator\n
    */
```

```kotlin
public inline fun CharArray.reduceRightIndexed(operation: (Int, Char, Char) -> Char): Char {
    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
}
```

```kotlin
/**
 * Accumulates value starting with last element and applying [operation] from right to left and current accumulator value. Returns null if the array is empty.
 */
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Array<out S>.reduceRightOrNull(operation: (T, acc: S) -> S): S?
    \n    \n    \n    \n    var index = lastIndex
    if (index < 0) return null
    \n    var accumulator = get(index--)
    while (index >= 0) \n    \n    \n    return accumulator

    */
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte) -> Byte): Byte?
    \n    \n    \n    var index = lastIndex
    if (index < 0) return null
    \n    var accumulator = get(index--)
    while (index >= 0) \n    \n    \n    return accumulator

    */
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short?
    \n    \n    \n    var index = lastIndex
    if (index < 0) return null
    \n    var accumulator = get(index--)
    while (index >= 0) \n    \n    \n    return accumulator

    */
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int?
    \n    \n    \n    var index = lastIndex
    if (index < 0) return null
    \n    var accumulator = get(index--)
    while (index >= 0) \n    \n    \n    return accumulator

    */
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long?
    \n    \n    \n    var index = lastIndex
    if (index < 0) return null
    \n    var accumulator = get(index--)
    while (index >= 0) \n    \n    \n    return accumulator

    */
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float?
    \n    \n    \n    var index = lastIndex
    if (index < 0) return null
    \n    var accumulator = get(index--)
    while (index >= 0) \n    \n    \n    return accumulator

    */
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double?
    \n    \n    \n    var index = lastIndex
    if (index < 0) return null
    \n    var accumulator = get(index--)
    while (index >= 0) \n    \n    \n    return accumulator

    */
```
samples.collections.Collections.Aggregates.reduceRightOrNull
*\n@SinceKotlin("1.3."")\n@ExperimentalStdlibApi\npublic inline fun BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.
 * Returns null if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    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.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun ByteArray.scan(initial: R, operation: (acc: R, Byte) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun IntArray.scan(initial: R, operation: (acc: R, Int) -> 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. 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.


`FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R>`

`DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R>`

`CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R>`

* 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.
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.scan

*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\public inline fun <T, R> Array\<Tout T>\.scanIndexed\(initial: R, operation: (index: Int, acc: R, T) -> R)\: List\<R> { \n    var result = Array\<List\<R\>>(size + 1).apply { add\(initial\) } \n    var accumulator = initial for (index in indices) \n        result.add\(accumulator\) \n    return result\n} val result = Array\<List\<R\>>(size + 1).apply { add\(initial\) } \n    var accumulator = initial for (index in indices) \n        result.add\(accumulator\) \n    return result\n} \n
*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@kotlin.internal.InlineOnly\public inline fun <R> 
ByteArray.scanIndexed\(initial: R, operation: (index: Int, acc: R, Byte) -> R)\: List\<R> { \n    var result = ArrayList\<R\>(size + 1).apply { add\(initial\) } \n    var accumulator = initial for (index in indices) \n        result.add\(accumulator\) \n    return result\n} \n
*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@kotlin.internal.InlineOnly\public inline fun <R> 
ShortArray.scanIndexed\(initial: R, operation: (index: Int, acc: R, Short) -> R)\: List\<R> { \n    var result = ArrayList\<R\>(size + 1).apply { add\(initial\) } \n    var accumulator = initial for (index in indices) \n        result.add\(accumulator\) \n    return result\n} \n
*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@kotlin.internal.InlineOnly\public inline fun <R> 
IntArray.scanIndexed\(initial: R, operation: (index: Int, acc: R, Int) -> R)\: List\<R> { \n    var result = ArrayList\<R\>(size + 1).apply { add\(initial\) } \n    var accumulator = initial for (index in indices) \n        result.add\(accumulator\) \n    return result\n} \n
*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@kotlin.internal.InlineOnly\public inline fun <R> 
LongArray.scanIndexed\(initial: R, operation: (index: Int, acc: R, Long) -> R)\: List\<R> { \n    var result = ArrayList\<R\>(size + 1).apply { add\(initial\) } \n    var accumulator = initial for (index in indices) \n        result.add\(accumulator\) \n    return result\n}
starts with [initial] value.\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 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly
public inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {
    if (isEmpty()) return listOf(initial) 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}

/**
 * Returns a list containing successive accumulation values generated by applying
 * left to right to each element, its index in the original array and current accumulator value
 * that starts with [initial] value.\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 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly
public inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {
    if (isEmpty()) return listOf(initial) 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}

/**
 * Returns a list containing successive accumulation values generated by applying
 * left to right to each element, its index in the original array and current accumulator value
 * that starts with [initial] value.\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 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly
public inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {
    if (isEmpty()) return listOf(initial) 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}

/**
 * Returns a list containing successive accumulation values generated by applying
 * left to right to each element and current accumulator value that starts with the first element of
 * this array.\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 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly
public inline fun <S, T : S> Array<out T>.scanReduce(operation: (acc: S, T) -> S): List<S> {
    if (isEmpty()) return emptyList() var accumulator: S = this[0]\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}
* 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.

```kotlin
ByteArray.scanReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Byte>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
ShortArray.scanReduce(operation: (acc: Short, Short) -> Short): List<Short> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Short>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
IntArray.scanReduce(operation: (acc: Int, Int) -> Int): List<Int> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Int>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
LongArray.scanReduce(operation: (acc: Long, Long) -> Long): List<Long> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Long>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
FloatArray.scanReduce(operation: (acc: Float, Float) -> Float): List<Float> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Float>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

```kotlin
DoubleArray.scanReduce(operation: (acc: Double, Double) -> Double): List<Double> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Double>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```
```kotlin
/*
 * 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.scanReduce
 */

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun BooleanArray.scanReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Boolean>(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.scanReduce
 */

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun CharArray.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(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. *
 * @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.scanReduce
 */

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <S, T : S> Array<out T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    if (isEmpty()) return emptyList()
    var accumulator: S = this[0]
    val result = ArrayList<S>(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. *
 * @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.scanReduce
 */

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun ByteArray.scanReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Byte>(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. *
 * @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.scanReduce
 */

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun ShortArray.scanReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Short>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}
```

---

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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.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n\nPUBLIC inline fun

IntArray.scanReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> { \n  var accumulator = this[0]\n  val result = ArrayList<Int>(size).apply { \n    add(accumulator) \n  } \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@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n\nPUBLIC inline fun

LongArray.scanReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> { \n  var accumulator = this[0]\n  val result = ArrayList<Long>(size).apply { \n    add(accumulator) \n  } \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@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n\nPUBLIC inline fun

FloatArray.scanReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> { \n  var accumulator = this[0]\n  val result = ArrayList<Float>(size).apply { \n    add(accumulator) \n  } \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@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n\nPUBLIC inline fun

DoubleArray.scanReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> { \n  var accumulator = this[0]\n  val result = ArrayList<Double>(size).apply { \n    add(accumulator) \n  } \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@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n\nPUBLIC inline fun

BooleanArray.scanReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean> { \n  var accumulator = this[0]\n  val result = ArrayList<Boolean>(size).apply { \n    add(accumulator) \n  } \n  for (index in 1 until size) { \n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  } \n  return result\n}
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```java
public inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {
    var sum: Double = 0.0
    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.
 */
public inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {
    var sum: Double = 0.0
    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.
 */
public inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {
    var sum: Double = 0.0
    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.
 */
public inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {
    var sum: Double = 0.0
    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.
 */
public inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {
    var sum: Double = 0.0
    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.
 */
public inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {
    var sum: Double = 0.0
    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.
 */
public inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    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.
 */
public inline fun CharArray.sumBy(selector: (Char) -> Int): Int {
    var sum: Int = 0
    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.
 */
public inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {
    var sum: Int = 0
    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.
 */
public inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {
    var sum: Int = 0
    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.
 */
public inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {
    var sum: Int = 0
    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.
 */
public inline fun LongArray.sumBy(selector: (Long) -> Int): Int {
    var sum: Int = 0
    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.
 */
public inline fun IntArray.sumBy(selector: (Int) -> Int): Int {
    var sum: Int = 0
    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.
 */
public inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {
    var sum: Int = 0
    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.
 */
public inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {
    var sum: Int = 0
    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.
 */
public inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    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.
 */
public inline fun CharArray.sumBy(selector: (Char) -> Int): Int {
    var sum: Int = 0
    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.
 */
public inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
```

return sum

* Returns the sum of all values produced by [selector] function applied to each element in the array.

* An public inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {
    var sum: Double = 0.0
    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.

* An public fun <T : Any> Array<T>.requireNoNulls(): Array<T>

* Returns the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`, \n* while *second* list contains elements for which [predicate] yielded `false`.

* An public inline fun <T> Array<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    var first = ArrayList<T>()
    var second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`, \n* while *second* list contains elements for which [predicate] yielded `false`.

* An public inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {
    var first = ArrayList<Byte>()
    var second = ArrayList<Byte>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`, \n* while *second* list contains elements for which [predicate] yielded `false`.

* An public inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {
    var first = ArrayList<Short>()
    var second = ArrayList<Short>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`, \n* while *second* list contains elements for which [predicate] yielded `false`.

* An public inline fun LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {
    var first = ArrayList<Long>()
    var second = ArrayList<Long>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`, \n* while *second* list contains elements for which [predicate] yielded `false`.

* An public inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {
    var first = ArrayList<Float>()
    var second = ArrayList<Float>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`, \n* while *second* list contains elements for which [predicate] yielded `false`.

* An public inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {
    var first = ArrayList<Double>()
    var second = ArrayList<Double>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`, \n* while *second* list contains elements for which [predicate] yielded `false`.

* An public inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {
    var first = ArrayList<Boolean>()
    var second = ArrayList<Boolean>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}
*second* list contains elements for which [predicate] yielded 'false'.

```kotlin
CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {
    val first = ArrayList<Char>()
    val second = ArrayList<Char>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}
```

```kotlin
/**
 * 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.
 */
Array.zip(other: Array<out R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
/**
 * 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.
 */
ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
/**
 * 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.
 */
ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
/**
 * 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.
 */
IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
/**
 * 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.
 */
LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
/**
 * 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.
 */
FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
/**
 * 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.
 */
BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

```kotlin
/**
 * 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.
 */
CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```
pair of elements. The returned list has length of the shortest collection.

```kotlin
public inline fun <R, V> ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

The returned list has length of the shortest collection.

```kotlin
public inline fun <R, V> IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

The returned list has length of the shortest collection.

```kotlin
public inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

The returned list has length of the shortest collection.

```kotlin
public inline fun <R, V> FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

The returned list has length of the shortest collection.

```kotlin
public inline fun <R, V> DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

The returned list has length of the shortest collection.

```kotlin
public inline fun <R, V> BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

The returned list has length of the shortest collection.

```kotlin
public inline fun <R, V> CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}
```

The returned list has length of the shortest collection.

```kotlin
fun <T, R> Array<out T>.zip(other: Iterable<R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

The returned list has length of the shortest collection.

```kotlin
fun <R> ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

The returned list has length of the shortest collection.
samples.collections.Iterables.Operations.zipIterable

fun <R> ShortArray.zip(other: Iterable<R>): List<Pair<Short, R>>

fun <R> IntArray.zip(other: Iterable<R>): List<Pair<Int, R>>

fun <R> LongArray.zip(other: Iterable<R>): List<Pair<Long, R>>

fun <R> FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>>

fun <R> DoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>>

fun <R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>>

fun <R> CharArray.zip(other: Iterable<R>): List<Pair<Char, R>>

fun <T, R, V> Array<out T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V>
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.
* \n* @sample samples.collections.Operations.zipIterableWithTransform\n*/

    var 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
}

 */

public inline fun <R, V> FloatArray.zip(other: Iterable<R>, transform: (a: Float, 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
}

 */

public inline 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
}

 */

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
}

 */

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
}

 */

public infix fun ByteArray.zip(other: ByteArray): List<Pair<Byte, Byte>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

 */

public infix fun ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

 */

public infix fun IntArray.zip(other: IntArray): List<Pair<Int, Int>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

 */

public infix fun LongArray.zip(other: LongArray): List<Pair<Long, Long>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

 */

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samples.collections.Iterables.Operations.zipIterable

*public infix fun FloatArray.zip(other: FloatArray): List<Pair<Float, Float>>

*infix fun FloatArray.zip(other: FloatArray): List<Pair<Float, Float>>

*public infix fun DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>>

*public infix fun BooleanArray.zip(other: BooleanArray): List<Pair<Boolean, Boolean>>

*public infix fun CharArray.zip(other: CharArray):

*public inline fun <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V>

*public inline fun <V> ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V>

*public inline fun <V> IntArray.zip(other: IntArray, transform: (a: Int, b: Int) -> V): List<V>

*public inline fun <V> LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V>

*public inline fun <V> FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V>

*public inline fun <V> DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V>
list has length of the shortest array.

samples.collections.Operations.zipIterableWithTransform

BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> { val size = minOf(size, other.size) val list = ArrayList<V>(size) for (i in 0 until size) { list.add(transform(this[i], other[i])) } return list }

@sample

samples.collections.Operations.zipIterableWithTransform

CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> { val size = minOf(size, other.size) val list = ArrayList<V>(size) for (i in 0 until size) { list.add(transform(this[i], other[i])) } return list }

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
}

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
}

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
}

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
}
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()
}

/**
 * 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 ShortArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> 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 IntArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> 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 LongArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> 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 FloatArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
samples.collections.Collections.Transformations.joinToString(separator: CharSequence = "\", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> 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 "...").
 */
public fun BooleanArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> 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 "...").
 */
public fun CharArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Char) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun <T> Array<out T>.asIterable(): Iterable<T> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun ByteArray.asIterable(): Iterable<Byte> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun ShortArray.asIterable(): Iterable<Short> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun IntArray.asIterable(): Iterable<Int> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun LongArray.asIterable(): Iterable<Long> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun FloatArray.asIterable(): Iterable<Float> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun DoubleArray.asIterable(): Iterable<Double> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun BooleanArray.asIterable(): Iterable<Boolean> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun CharArray.asIterable(): Iterable<Char> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun <T> Array<out T>.asSequence(): Sequence<T> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun ByteArray.asSequence(): Sequence<Byte> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun ShortArray.asSequence(): Sequence<Short> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun IntArray.asSequence(): Sequence<Int> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun LongArray.asSequence(): Sequence<Long> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun FloatArray.asSequence(): Sequence<Float> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun DoubleArray.asSequence(): Sequence<Double> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun BooleanArray.asSequence(): Sequence<Boolean> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun CharArray.asSequence(): Sequence<Char> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}
@sample samples.collections.Sequences.Building

sequenceFromArray

/**
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun IntArray.asSequence():
  Sequence<Int> {
    return Sequence { this.iterator() }
  }

/**
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun LongArray.asSequence():
  Sequence<Long> {
    return Sequence { this.iterator() }
  }

/**
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun FloatArray.asSequence():
  Sequence<Float> {
    return Sequence { this.iterator() }
  }

/**
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun DoubleArray.asSequence():
  Sequence<Double> {
    return Sequence { this.iterator() }
  }

/**
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun BooleanArray.asSequence():
  Sequence<Boolean> {
    return Sequence { this.iterator() }
  }

/**
 * @sample samples.collections.Sequences.Building.sequenceFromArray
 */
public fun CharArray.asSequence():
  Sequence<Char> {
    return Sequence { this.iterator() }
  }

/**
 * @kotlin.jvm.JvmName("averageOfByte")
 */
public fun Array<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
}

/**
 * @kotlin.jvm.JvmName("averageOfShort")
 */
public fun Array<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
}

/**
 * @kotlin.jvm.JvmName("averageOfInt")
 */
public fun Array<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
}

/**
 * @kotlin.jvm.JvmName("averageOfLong")
 */
public fun Array<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
}

/**
 * @kotlin.jvm.JvmName("averageOfFloat")
 */
public fun Array<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
}

/**
 * @kotlin.jvm.JvmName("averageOfDouble")
 */
public fun Array<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
}

/**
 * @kotlin.jvm.JvmName("averageOfByte")
 */
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
}

/**
 * @kotlin.jvm.JvmName("averageOfShort")
 */
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
}

/**
 * @kotlin.jvm.JvmName("averageOfInt")
 */
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
}

/**
 * @kotlin.jvm.JvmName("averageOfLong")
 */
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
}

/**
 * @kotlin.jvm.JvmName("averageOfFloat")
 */
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
}

/**
 * @kotlin.jvm.JvmName("averageOfDouble")
 */
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
}
else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("sumOfDouble")
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 an average value of elements in the array.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Array<out Float>.average(): Float {
    var sum: Float = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun ByteArray.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 ShortArray.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 IntArray.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 LongArray.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("sumOfByte")
public fun ByteArray.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 ShortArray.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 IntArray.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 LongArray.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 FloatArray.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 DoubleArray.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun ByteArray.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 ShortArray.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 IntArray.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 LongArray.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 FloatArray.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 DoubleArray.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/*
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 * license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("RangesKt")

package kotlin.ranges

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.random.*

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun IntRange.random(): Int {
    return random(Random)
}

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun LongRange.random(): Long {
    return random(Random)
}

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun CharRange.random(): Char {
    return random(Random)
}

/**
 * Returns a random element from this range using the specified source of randomness.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun IntRange.random(random: Random): Int {
    return random.nextInt(this)
}

/**
 * Returns a random element from this range using the specified source of randomness.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun LongRange.random(random: Random): Long {
    return random.nextLong(this)
}

/**
 * Returns a random element from this range using the specified source of randomness.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun CharRange.random(random: Random): Char {
    return random.nextChar()}

/**
 * Returns a random element from the IntRange using the specified source of randomness.
 * 
 * @throws NoSuchElementException if the IntRange is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun IntRange.random(): Int {
    try {
        return random.nextInt(this)
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from the LongRange using the specified source of randomness.
 * 
 * @throws NoSuchElementException if the LongRange is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun LongRange.random(): Long {
    try {
        return random.nextLong(this)
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from the CharRange using the specified source of randomness.
 * 
 * @throws NoSuchElementException if the CharRange is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public fun CharRange.random(): Char {
    try {
        return random.nextChar()}
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

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specified source of randomness.

@throws IllegalArgumentException if this range is empty.

@SinceKotlin("1.3")
public fun CharRange.random(random: Random): Char {
    try {
        return random.nextInt(first.toInt(), last.toInt() + 1).toChar()
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from this range, or `null` if this range is empty.
 */
@SinceKotlin("1.3")
public fun CharRange.randomOrNull(random: Random): Char? {
    if (isEmpty())
        return null
    return random.nextInt(first.toInt(), last.toInt() + 1).toChar()
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun IntRange.randomOrNull(random: Random): Int? {
    if (isEmpty())
        return null
    return random.nextInt(this)
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun LongRange.randomOrNull(random: Random): Long? {
    if (isEmpty())
        return null
    return random.nextLong(this)
}

/**
 * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun CharRange.randomOrNull(random: Random): Char? {
    if (isEmpty())
        return null
    return random.nextInt(first.toInt(), last.toInt() + 1).toChar()
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("intRangeContains")
public operator fun ClosedRange<Int>.contains(value: Byte): Boolean {
    return contains(value.toInt())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("longRangeContains")
public operator fun ClosedRange<Long>.contains(value: Byte): Boolean {
    return contains(value.toLong())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("shortRangeContains")
public operator fun ClosedRange<Short>.contains(value: Byte): Boolean {
    return contains(value.toShort())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Byte): Boolean {
    return contains(value.toDouble())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Byte): Boolean {
    return contains(value.toFloat())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@kotlin.jvm.JvmName("intRangeContains")
public operator fun ClosedRange<Int>.contains(value: Double): Boolean {
    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }
}
Checks if the specified [value] belongs to this range.

```kotlin
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@kotlin.jvm.JvmName("longRangeContains")
public operator fun
ClosedRange<Long>.contains(value: Double): Boolean {
    return value.toLongOrNull().let { if (it != null) contains(it) else false }
}

@kotlin.jvm.JvmName("byteRangeContains")
public operator fun
ClosedRange<Byte>.contains(value: Double): Boolean {
    return value.toByteOrNull().let { if (it != null) contains(it) else false }
}

@kotlin.jvm.JvmName("shortRangeContains")
public operator fun
ClosedRange<Short>.contains(value: Double): Boolean {
    return value.toShortOrNull().let { if (it != null) contains(it) else false }
}

@kotlin.jvm.JvmName("floatRangeContains")
public operator fun
ClosedRange<Float>.contains(value: Double): Boolean {
    return contains(value.toFloat())
}

@kotlin.jvm.JvmName("intRangeContains")
public operator fun
ClosedRange<Int>.contains(value: Float): Boolean {
    return value.toIntOrNull().let { if (it != null) contains(it) else false }
}
```

@kotlin.jvm.JvmName("longRangeContains")
public operator fun
ClosedRange<Long>.contains(value: Int): Boolean {
    return contains(value.toLong())
}

@kotlin.jvm.JvmName("byteRangeContains")
public operator fun
ClosedRange<Byte>.contains(value: Int): Boolean {
    return value.toByteOrNull().let { if (it != null) contains(it) else false }
}

@kotlin.jvm.JvmName("shortRangeContains")
public operator fun
ClosedRange<Short>.contains(value: Int): Boolean {
    return value.toShortOrNull().let { if (it != null) contains(it) else false }
}

@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun
ClosedRange<Double>.contains(value: Float): Boolean {
    return contains(value.toDouble())
}

@kotlin.jvm.JvmName("floatRangeContains")
public operator fun
ClosedRange<Float>.contains(value: Int): Boolean {
    return contains(value.toFloat())
}
```
specified [value] belongs to this range.

```kotlin
@kotlin.jvm.JvmName("intRangeContains")
public operator fun ClosedRange<Int>.contains(value: Long): Boolean {
    return value.toUnsignedIntOrNull().let { if (it != null) contains(it) else false }
}
```

```kotlin
@kotlin.jvm.JvmName("byteRangeContains")
public operator fun ClosedRange<Byte>.contains(value: Long): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}
```

```kotlin
@kotlin.jvm.JvmName("shortRangeContains")
public operator fun ClosedRange<Short>.contains(value: Long): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }
}
```

```kotlin
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Long): Boolean {
    return contains(value.toDouble())
}
```

```kotlin
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Long): Boolean {
    return contains(value.toFloat())
}
```

```kotlin
@kotlin.jvm.JvmName("intRangeContains")
public operator fun ClosedRange<Int>.contains(value: Short): Boolean {
    return contains(value.toInt())
}
```

```kotlin
@kotlin.jvm.JvmName("longRangeContains")
public operator fun ClosedRange<Long>.contains(value: Short): Boolean {
    return contains(value.toLong())
}
```

```kotlin
@kotlin.jvm.JvmName("byteRangeContains")
public operator fun ClosedRange<Byte>.contains(value: Short): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}
```

```kotlin
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Short): Boolean {
    return contains(value.toDouble())
}
```

```kotlin
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Short): Boolean {
    return contains(value.toFloat())
}
```

```kotlin
/**
 * 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.
 *
 */
public infix fun Int.downTo(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
}
```

```kotlin
/**
 * 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.
 *
 */
public infix fun Long.downTo(to: Byte): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}
```

```kotlin
/**
 * 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.
 *
 */
public infix fun Byte.downTo(to: Byte): ByteProgression {
    return ByteProgression.fromClosedRange(this, to.toInt(), -1)
}
```

```kotlin
/**
 * 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.
 *
 */
public infix fun Char.downTo(to: Char): CharProgression {
    return CharProgression.fromClosedRange(this, to, -1)
}
```
empty.

/*\n*\n*public infix fun Int.downTo(to: Int): IntProgression {\n*    return IntProgression.fromClosedRange(this, to, -1)\n*} \n*\n*public infix fun Long.downTo(to: Int): LongProgression {\n*    return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n*} \n*\n*public infix fun Byte.downTo(to: Int): IntProgression {\n*    return IntProgression.fromClosedRange(this.toInt(), to, -1)\n*} \n*\n*public infix fun Short.downTo(to: Int): IntProgression {\n*    return IntProgression.fromClosedRange(this.toInt(), to, -1)\n*} \n*\n*public infix fun IntProgression.reversed(): IntProgression {\n*    return IntProgression.fromClosedRange(last, first, -step)\n*} \n*\n*public infix fun LongProgression.reversed(): LongProgression {\n*    return LongProgression.fromClosedRange(last, first, -step)\n*} \n*\n*public infix fun CharProgression.reversed(): CharProgression {\n*    return CharProgression.fromClosedRange(last, first, -step)\n*} \n*\n*checkStepIsPositive(step > 0, step) {\n*    return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n*} \n*/
/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun LongProgression.step(step: Long): LongProgression {
    checkStepIsPositive(step > 0, step)
    return
}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun CharProgression.step(step: Int): CharProgression {
    checkStepIsPositive(step > 0, step)
    return
}

internal fun Int.toByteExactOrNull(): Byte? {
    return if (this in
    Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null
}

internal fun Long.toByteExactOrNull(): Byte? {
    return if (this in
    Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null
}

internal fun Short.toByteExactOrNull(): Byte? {
    return if (this in
    Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null
}

internal fun Double.toByteExactOrNull(): Byte? {
    return if (this in
    Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toByte() else null
}

internal fun Float.toByteExactOrNull(): Byte? {
    return if (this in
    Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toByte() else null
}

internal fun Int.toIntExactOrNull(): Int? {
    return if (this in
    Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong()) this.toInt() else null
}

internal fun Double.toIntExactOrNull(): Int? {
    return if (this in
    Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null
}

internal fun Float.toIntExactOrNull(): Int? {
    return if (this in
    Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null
}

internal fun Long.toLongExactOrNull(): Long? {
    return if (this in
    Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null
}

internal fun Float.toLongExactOrNull(): Long? {
    return if (this in
    Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null
}

internal fun Int.toShortExactOrNull(): Short? {
    return if (this in
    Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt()) this.toShort() else null
}

internal fun Long.toShortExactOrNull(): Short? {
    return if (this in
    Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null
}

/**
 * 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.
 */
public infix fun Int.until(to: Byte): IntRange {
    return this .. (to.toInt() - 1).toInt()
}

/**
 * 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.
 */
public infix fun Long.until(to: Byte): LongRange {
    return this .. (to.toLong() - 1).toLong()
}

/**
 * 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.
 */
public infix fun Float.until(to: Byte): IntRange {
    return this .. (to.toInt() - 1).toInt()
}

/**
 * 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.
 */
public infix fun Double.until(to: Byte): LongRange {
    return this .. (to.toLong() - 1).toLong()
}

/**
 * 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.
 */
public infix fun Short.until(to: Byte): CharRange {
    if (to <= '\u0000')
    return CharRange.EMTY
    return this .. (to - 1).toChar()
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.

public infix fun Byte.until(to: Int): IntRange {
    if (to <= Int.MIN_VALUE) return IntRange.EMPTY
    return this.toInt() .. (to - 1).toInt()
}

public infix fun Short.until(to: Int): IntRange {
    if (to <= Int.MIN_VALUE) return IntRange.EMPTY
    return this.toInt() .. (to - 1).toInt()
}

public infix fun Int.until(to: Long): LongRange {
    if (to <= Long.MIN_VALUE) return LongRange.EMPTY
    return this .. (to - 1).toLong()
}

public infix fun Long.until(to: Long): LongRange {
    if (to <= Long.MIN_VALUE) return LongRange.EMPTY
    return this .. (to - 1).toLong()
}

public infix fun Byte.until(to: Long): LongRange {
    if (to <= Long.MIN_VALUE) return LongRange.EMPTY
    return this.toLong() .. (to - 1).toLong()
}

public infix fun Short.until(to: Long): LongRange {
    if (to <= Long.MIN_VALUE) return LongRange.EMPTY
    return this.toLong() .. (to - 1).toLong()
}

public infix fun Int.until(to: Short): IntRange {
    return this .. (to.toInt() - 1).toInt()
}

public infix fun Long.until(to: Short): IntRange {
    return this.toInt() .. (to.toInt() - 1).toInt()
}

public infix fun Byte.until(to: Short): IntRange {
    return this.toInt() .. (to.toInt() - 1).toInt()
}

public infix fun Short.until(to: Short): IntRange {
    return this.toInt() .. (to.toInt() - 1).toInt()
}

public fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T {
    return if (this < minimumValue) minimumValue else this
}

public fun Byte.coerceAtLeast(minimumValue: Byte): Byte {
    return if (this < minimumValue) minimumValue else this
}

public fun Short.coerceAtLeast(minimumValue: Short): Short {
    return if (this < minimumValue) minimumValue else this
}

public fun Int.coerceAtLeast(minimumValue: Int): Int {
    return if (this < minimumValue) minimumValue else this
}

public fun Long.coerceAtLeast(minimumValue: Long): Long {
    return if (this < minimumValue) minimumValue else this
}

Ensures that this value is not less than the specified [minimumValue].

@sample samples.comparisons.ComparableOps.coerceAtLeast

Ensures that this value is not less than the specified [minimumValue].

@sample samples.comparisons.ComparableOps.coerceAtLeast

Ensures that this value is not less than the specified [minimumValue].

@sample samples.comparisons.ComparableOps.coerceAtLeast

Ensures that this value is not less than the specified [minimumValue].

@sample samples.comparisons.ComparableOps.coerceAtLeast

Ensures that this value is not less than the specified [minimumValue].

@sample samples.comparisons.ComparableOps.coerceAtLeast

Ensures that this value is not less than the specified [minimumValue].

@sample samples.comparisons.ComparableOps.coerceAtLeast
or the [minimumValue] otherwise.

```kotlin
public fun Float.coerceAtLeast(minimumValue: Float): Float {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maxValue].
 * @return this value if it's less than or equal to the [maxValue] or the [maxValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T {
    return if (this > maximumValue) maximumValue else this
}

/**
 * Ensures that this value lies in the specified range [minValue]..[maxValue].
 * @return this value if it's in the range, or [minValue] if this value is less than [minValue],
 * or [maxValue] if this value is greater than [maxValue].
 * @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
```

```kotlin
minimumValue.")
```

```kotlin
  
```
minimum $minimumValue.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

return this

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.

if (this < minimumValue) return minimumValue
else if (this > maximumValue) return maximumValue

ensures that this value lies in the specified range.
T.coerceIn(range: ClosedRange<T>): T
  if (range is ClosedFloatingPointRange) {
    return this.coerceIn<T>(range)
  } else {
    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
    }
  }

/**
 * 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.coerceIn
 */
public fun Int.coerceIn(range: ClosedRange<Int>): Int {
  if (range is ClosedFloatingPointRange) {
    return this.coerceIn<Int>(range)
  } else {
    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
    }
  }

/**
 * 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.coerceIn
 */
public fun Long.coerceIn(range: ClosedRange<Long>): Long {
  if (range is ClosedFloatingPointRange) {
    return this.coerceIn<Long>(range)
  } else {
    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
    }
  }

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@PublishedApi
public inline class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {

    companion object {
        /**
         * A constant holding the minimum value an instance of UByte can have.
         */
        public const val MIN_VALUE: UByte = UByte(0)

        /**
         * A constant holding the maximum value an instance of 
         */
        public const val MAX_VALUE: UByte = UByte(-1)

        /**
         * The number of bytes used to represent an instance of UByte in a binary form.
         */
        public const val SIZE_BYTES: Int = 1

        /**
         * The number of bits used to represent an instance of UByte in a binary form.
         */
        public const val SIZE_BITS: Int = 8

        /**
         * 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.
         */
        public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())

        /**
         * 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.
         */
        public inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())

        /**
         * 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.
         */
        public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)

        /**
         * 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.
         */
        public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)

        /** Adds the other value to this value. */
        public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())

        /** Adds the other value to this value. */
        public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())

        /** Adds the other value to this value. */
        public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)

        /** Adds the other value to this value. */
        public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)

        /** Subtracts the other value from this value. */
        public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())

        /** Subtracts the other value from this value. */
        public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())

        /** Subtracts the other value from this value. */
        public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)

        /** Subtracts the other value from this value. */
        public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)

        /** Returns 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`.
         */
        public inline operator fun in(range: ClosedRange<UByte>): Boolean {
            return when {
                this < range.start -> false
                this > range.endInclusive -> false
                else -> true
            }
        }
    }

    override fun compareTo(other: Comparable<UByte>): Int = compareTo(other)

    override fun hashCode(): Int = toInt().hashCode()

    override fun equals(other: Any?): Boolean = other is UByte && toInt().equals(other.toInt())

    override fun toString(): String = Integer.toHexString(toInt())

    @PublishedApi
    @ExperimentalUnsignedTypes
    public companion object {
        /**
         * Returns the number of bytes used to represent an instance of UByte in a binary form.
         */
        public const val SIZE_BYTES: Int = 1

        /**
         * Returns the number of bits used to represent an instance of UByte in a binary form.
         */
        public const val SIZE_BITS: Int = 8
    }
}
public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())  
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())  
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)  
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)  
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())  
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())  
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)  
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: ULong): ULong = this.toULong().times(other)  
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())  
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())  
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)  
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong = this.toULong().div(other)  
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())  
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())  
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)  
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)  
/** Increments this value. */
@kotlin.internal.InlineOnly
public inline operator fun inc(): UByte = UByte(data.inc())  
/** Decrements this value. */
@kotlin.internal.InlineOnly
public inline operator fun dec(): UByte = UByte(data.dec())  
/** Creates a range from this value to the specified [other] value. */
@kotlin.internal.InlineOnly
operator fun rangeTo(other: UByte): UIntRange = UIntRange(this.toUInt(), other.toUInt())  
/** Performs a bitwise AND operation between the two values. */
@kotlin.internal.InlineOnly
infix fun and(other: UByte): UByte = UByte(this.data and other.data)  
/** Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
infix fun or(other: UByte): UByte = UByte(this.data or other.data)  
/** Performs a bitwise XOR operation between the two values. */
@kotlin.internal.InlineOnly
infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)  
/** Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public inline fun inv(): UByte = UByte(data.inv())  
/** Converts this [UByte] value to [Byte]. */
@kotlin.internal.InlineOnly
* Converts this [UByte] value to [Byte]. */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data  
/** Converts this [UByte] value to [Short]. */
@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data.toShort() and 0xFF  
/** Converts this [UByte] value to [Int]. */
@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt() and 0xFF  
/** Converts this [UByte] value to [Long]. */
@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data.toLong() and 0xFF  
/** Converts this [UByte] value to [Byte]. */
@kotlin.internal.InlineOnly
public inline fun toByte(data: Byte or other.data)  
/** Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
public inline fun or(data or other.data)  
/** Performs a bitwise XOR operation between the two values. */
@kotlin.internal.InlineOnly
public inline fun xor(data or other.data)  
/** Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public inline fun inv(data: Byte or other.data)  
/** Converts this [UByte] value to [Byte]. */
@kotlin.internal.InlineOnly
public inline fun toByte(data: Byte or other.data)  
/** Converts this [UByte] value to [Short]. */
@kotlin.internal.InlineOnly
public inline fun toShort(data: Short or other.data)  
/** Converts this [UByte] value to [Int]. */
@kotlin.internal.InlineOnly
public inline fun toInt(data: Int or other.data)  
/** Converts this [UByte] value to [Long]. */
@kotlin.internal.InlineOnly
public inline fun toLong(data: Long or other.data)
* The resulting `Long` value represents the same numerical value as this `UByte`.
  * The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte` value.
  * The least significant 8 bits of the resulting `Long` value are filled with zeros.
  * The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte` value.
  * The least significant 8 bits of the resulting `Long` value are filled with zeros.
  * The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte` value.
  * The least significant 8 bits of the resulting `Long` value are filled with zeros.
  * The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte` value.
  * The least significant 8 bits of the resulting `Long` value are filled with zeros.
used to represent an instance of UInt in a binary form.
 */
        public const val SIZE_BYTES: Int = 4

    /**
     * The number of bits used to represent an instance of UInt in a binary form.
     */
        public const val SIZE_BITS: Int = 32

    /**
     *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.compareTo(other.toUInt())

    /**
     *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: UShort): Int = this.compareTo(other.toUInt())

    /**
     *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: UInt): Int = uintCompare(this.data, other.data)

    /**
     *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: ULong): Int = this.toULong().compareTo(other)

    /** Adds the other value to this value. */
        @kotlin.internal.InlineOnly
        public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())

    /** Adds the other value to this value. */
        @kotlin.internal.InlineOnly
        public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())

    /** Adds the other value to this value. */
        @kotlin.internal.InlineOnly
        public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))

    /** Adds the other value to this value. */
        @kotlin.internal.InlineOnly
        public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)

    /** Subtracts the other value from this value. */
        @kotlin.internal.InlineOnly
        public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())

    /** Subtracts the other value from this value. */
        @kotlin.internal.InlineOnly
        public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())

    /** Subtracts the other value from this value. */
        @kotlin.internal.InlineOnly
        public inline operator fun minus(other: UInt): UInt = UInt(this.data.minus(other.data))

    /** Subtracts the other value from this value. */
        @kotlin.internal.InlineOnly
        public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)

    /** Multiplies this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())

    /** Multiplies this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())

    /** Multiplies this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))

    /** Multiplies this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun times(other: ULong): ULong = this.toULong().times(other)

    /** Divides this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())

    /** Divides this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun div(other: UShort): UInt = this.div(other.toUInt())

    /** Divides this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun div(other: UInt): UInt = uintDivide(this, other)

    /** Divides this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun div(other: ULong): ULong = this.toULong().div(other)

    /** Calculates the remainder of dividing this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())

    /** Calculates the remainder of dividing this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())

    /** Calculates the remainder of dividing this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun rem(other: UInt): UInt = uintRemainder(this, other)

    /** Calculates the remainder of dividing this value by the other value. */
        @kotlin.internal.InlineOnly
        public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)

    /** Increments this value. */
        @kotlin.internal.InlineOnly
        public inline operator fun increment(): UInt
        = this.toULong().increment()
operator fun inc(): UInt = UInt(data.inc()) /* ** Decrement this value. */ @kotlin.internal.InlineOnly
 public inline operator fun dec(): UInt = UInt(data.dec()) /* ** Creates a range from this value to the specified [other] value. */ @kotlin.internal.InlineOnly
 public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this, other) /* ** Shifts this value left by the [bitCount] number of bits. */ @kotlin.internal.InlineOnly
 public inline infix fun shl(bitCount: Int): UInt = UInt(data.shl(bitCount)) /* ** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */ @kotlin.internal.InlineOnly
 public inline infix fun shr(bitCount: Int): UInt = UInt(data.shr(bitCount)) /* ** Performs a bitwise AND operation between the two values. */ @kotlin.internal.InlineOnly
 public inline infix fun and(other: UInt): UInt = UInt(this.data and other.data) /* ** Performs a bitwise OR operation between the two values. */ @kotlin.internal.InlineOnly
 public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data) /* ** Performs a bitwise XOR operation between the two values. */ @kotlin.internal.InlineOnly
 public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data) /* ** Inverts the bits in this value. */ 

 /**
 * Converts this [UInt] value to [Byte].
 */ @kotlin.internal.InlineOnly
 public inline fun inv(): UInt = UInt(data.inv()) /* ** Converts this [UInt] value to [Byte].
 * If this value is less than or equals to [Byte.MAX_VALUE], the resulting 'Byte' value represents
 * the same numerical value as this 'UInt'.
 * * The resulting 'Byte' value is represented by the least significant 8 bits of this 'UInt' value.
 * * Note that the resulting 'Byte' value may be negative.
 */ @kotlin.internal.InlineOnly
 public inline fun toByte(): Byte = data.toByte() /* ** Converts this [UInt] value to [Short].
 * If this value is less than or equals to [Short.MAX_VALUE], the resulting 'Short' value represents
 * the same numerical value as this 'UInt'.
 * * The resulting 'Short' value is represented by the least significant 16 bits of this 'UInt' value.
 * * Note that the resulting 'Short' value may be negative.
 */ @kotlin.internal.InlineOnly
 public inline fun toShort(): Short = data.toShort() /* ** Converts this [UInt] value to [Int].
 * If this value is less than or equals to [Int.MAX_VALUE], the resulting 'Int' value represents
 * the same numerical value as this 'UInt'. Otherwise the result is negative.
 */ @kotlin.internal.InlineOnly
 public inline fun toInt(): Int = data /* ** Converts this [UInt] value to [Long].
 * * The resulting 'Long' value represents the same numerical value as this 'UInt'.
 * * The least significant 32 bits of the resulting 'Long' value are the same as the bits of this 'UInt' value,
 * whereas the most significant 32 bits are filled with zeros.
 */ @kotlin.internal.InlineOnly
 public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF /* ** Converts this [UInt] value to [UByte].
 * If this value is less than or equals to [UByte.MAX_VALUE], the resulting 'UByte' value represents
 * the same numerical value as this 'UInt'.
 * * The resulting 'UByte' value is represented by the least significant 8 bits of this 'UInt' value.
 */ @kotlin.internal.InlineOnly
 public inline fun toUByte(): UByte = data.toUByte() /* ** Converts this [UInt] value to [UShort].
 * If this value is less than or equals to [UShort.MAX_VALUE], the resulting 'UShort' value represents
 * the same numerical value as this 'UInt'.
 * * The resulting 'UShort' value is represented by the least significant 16 bits of this 'UInt' value.
 */ @kotlin.internal.InlineOnly
 public inline fun toUShort(): UShort = data.toUShort() /* ** Returns this value. */ 

 /**
 * Converts this [UInt] value to [Float].
 */ @kotlin.internal.InlineOnly
 public inline fun toFloat(): Float = this.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 = this.toDouble() /* ** 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 32 bits of the resulting 'ULong' value are the same as the bits of this 'UInt' value,
 * whereas the most significant 32 bits are filled with zeros.
 */ @kotlin.internal.InlineOnly
 public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF) /* ** Converts this [UInt] value to [ULong].
 * * The resulting 'ULong' value represents the same numerical value as this 'UInt'.
 * * The least significant 32 bits of the resulting 'ULong' value are the same as the bits of this 'UInt' value,
 * whereas the most significant 32 bits are filled with zeros.
 */ @kotlin.internal.InlineOnly
 public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF) /* ** Converts this [Int] value to [ULong].
 * * The resulting 'ULong' value represents the closest 'Float' to this 'Int' value.
 * * In case when this 'UInt' value is exactly between two 'Float's, the one with zero at least significant bit of mantissa is selected.
 */ @kotlin.internal.InlineOnly
 public inline fun toFloat(): Float = this.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 = this.toDouble() /* ** 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.

```kotlin
/*
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 */

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@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
    public inline operator fun compareTo(other: UShort): 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
    public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)

    /**
     * Converts this [Short] value to [UInt].
     * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun Short.toUInt(): UInt = UInt(this.toInt())

    /**
     * Converts this [Int] value to [UInt].
     * 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].
     * The least significant 32 bits of this `Long` value are the same as the bits of this `UInt` value.
     */
    @SinceKotlin("1.3")
    @ExperimentalUnsignedTypes
    @kotlin.internal.InlineOnly
    public inline fun Long.toUInt(): UInt = UInt(this.toInt())
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: ULong): Int =
this.toULong().compareTo(other.toULong())
/** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())
/** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UShort): UInt =
this.toUInt().plus(other.toUInt())
/** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)
/** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt())
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt())
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UInt): UInt =
this.toUInt().minus(other)
/** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UInt): UInt =
this.toUInt().times(other)
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt =
this.toUInt().div(other.toUInt())
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt =
this.toUInt().div(other.toUInt())
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)
/** Increments this value. */
@kotlin.internal.InlineOnly
public inline fun inc(): UShort = UShort(data.inc())
/** Decrements this value. */
@kotlin.internal.InlineOnly
public inline fun dec(): UShort = UShort(data.dec())
/** Creates a range from this value to the specified other value. */
@kotlin.internal.InlineOnly
public inline operator fun rangeTo(other: UShort): UIntRange =
UIntRange(this.toUInt(), other.toUInt())
/** Performs a bitwise AND operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun and(other: UShort): UShort =
UShort(this.data and other.data)
/** Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun or(other: UShort): UShort =
UShort(this.data or other.data)
/** Performs a bitwise XOR operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun xor(other: UShort): UShort =
UShort(this.data xor other.data)
/** Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public inline fun inv(): UShort = UShort(data.inv())
/** Converts this [UShort] value to [Byte]. */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = Byte.valueOf(data.toByte())
/** If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents the same numerical value as this `UShort`. */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte =
(Byte.MAX_VALUE * this.data + (this.data and 0x7f)).toByte()
/** Note that the resulting `Byte` value may be negative. */
@kotlin.internal.InlineOnly
public inline fun toByteArray(): ByteArray =
ByteArray(4).also { it[0] = data.toByte() }
inline fun toByte(): Byte = data.toByte()  /* Converts this [UShort] value to [Short]. */

@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data

@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt() and 0xFFFF

@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data.toLong() and 0xFFFF

@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte()

@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = this

@kotlin.internal.InlineOnly
public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)

@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)

@kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toInt().toFloat()

@kotlin.internal.InlineOnly
public inline fun toDouble(): Double = this.toDouble()

@kotlin.internal.InlineOnly
public override fun toString(): String = toInt().toString()
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package kotlin.ranges

/**
 * A range of values of type `Char`.
 */
public class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {
    override val start: Char get() = first
    override val endInclusive: Char get() = last
    override fun contains(value: Char): Boolean = first <= value && value <= last
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
        other is CharRange && (isEmpty() && other.isEmpty() ||
        first == other.first && last == other.last)
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (first.toInt() + last.toInt())
    override fun toString(): String = "$first..$last"
    companion object {
        /** An empty range of values of type Char. */
        public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())
    }
}

/**
 * A range of values of type `Int`.
 */
public class IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int> {
    override val start: Int get() = first
    override val endInclusive: Int get() = last
    override fun contains(value: Int): Boolean = first <= value && value <= last
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
        other is IntRange && (isEmpty() && other.isEmpty() ||
        first == other.first && last == other.last)
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (first + last)
    override fun toString(): String = "$first..$last"
    companion object {
        /** An empty range of values of type Int. */
        public val EMPTY: IntRange = IntRange(1, 0)
    }
}

/**
 * A range of values of type `Long`.
 */
public class LongRange(start: Long, endInclusive: Long) :
    LongProgression(start, endInclusive, 1), ClosedRange<Long> {
    override val start: Long get() = first
    override val endInclusive: Long get() = last
    override fun contains(value: Long): Boolean = first <= value && value <= last
    override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
        other is LongRange && (isEmpty() && other.isEmpty() ||
        first == other.first && last == other.last)
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (first xor (first ushr 32)) + (last xor (last ushr 32)).toInt()
    override fun toString(): String = "$first..$last"
    companion object {
        /** An empty range of values of type Long. */
        public val EMPTY: LongRange = LongRange(1, 0)
    }
}

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package kotlin.collections

import kotlin.contracts.*

internal object EmptyIterator : ListIterator<Nothing> {
    override fun hasNext(): Boolean = false
    override fun hasPrevious(): Boolean = false
    override fun nextIndex(): Int = 0
    override fun previousIndex(): Int = -1
    override fun next(): Nothing = throw NoSuchElementException()
    override fun previous(): Nothing = throw NoSuchElementException()
}

internal object EmptyList : List<Nothing>, Serializable, RandomAccess {
    private const val serialVersionUID: Long = -7390467645080689383L

    override fun equals(other: Any?): Boolean = other is List<*>
    override fun hashCode(): Int = 1
    override fun toString(): String = "[]"

    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false
    override fun containsAll(elements: Collection<Nothing>): Boolean = true
    override fun get(index: Int): Nothing = throw IndexOutOfBoundsException("Index: $index")

    override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> = throw IndexOutOfBoundsException("Empty list doesn't contain element at index $fromIndex.")

    override fun override fun hasNext(): Boolean = false
    override fun override fun hasNextIndex(): Int = 0
    override fun override fun next(): Nothing = throw NoSuchElementException()

    override fun override fun contains(element: Nothing): Boolean = false
    override fun override fun containsAll(elements: Collection<Nothing>): Boolean = false

    override fun override fun get(index: Int): Nothing = throw IndexOutOfBoundsException("Index: $index")

    companion object {
        /** An empty list. */
        public val EMPTY: List<Nothing> = EmptyList
    }
}
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.emptyList() 

/**
 * Returns a new read-only list of given elements. The returned list is serializable (JVM).
 */
@sample samples.collections.Collections.Lists.emptyList()
unspecified behavior. *n * [capacity] is used to hint the expected number of elements added in the `builderAction`. *n * @ throws IllegalArgumentException if the given [capacity] is negative. *n * @sample samples.collections.Binders.Lists.buildListSample

* @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)
    }
    checkBuilderCapacity(capacity)
    return ArrayList<E>(capacity).apply(builderAction)
}

/**
 * Returns an `IntRange` of the valid indices for this
collection.
 * @sample samples.collections.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.Collections.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.collectionOrEmpty
 */
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>?.orEmpty(): Collection<T> = this ?: emptyList()

/**
 * Returns this List if it's not `null` and
the empty list otherwise.
 * @sample samples.collections.Collections.Lists.listOrEmpty
 */
@kotlin.internal.InlineOnly
public inline fun <T> List<T>?.orEmpty(): 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.
 * @sample samples.collections.Collections.Collections.collectionContainsAll
 */
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)

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
Comparables 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; otherwise, the inverted
insertion point (`-insertion point - 1`).
 * 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.
 * @sample samples.collections.Collections.Lists.binarySearchOnComparable
 * @sample samples.Collections.Lists.binarySearchWithBoundaries
 * @sample samples.Collections.Lists.binarySearchWithComparator
 */
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases
@kotlin.internal.InlineOnly
public inline fun <T : Comparable<T>> List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): 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 = compareValues(midVal, element)
        if (cmp < 0) low = mid + 1
        else if (cmp > 0) high = mid - 1
        else
            return mid // key found
    }
    return -(low + 1) // key not found
}
multiple elements equal to the specified [element], there is no guarantee which one will be found.

* @return the index of the element, if it is contained in the list within the specified range; otherwise, the inverted insertion point `(-insertion point - 1)`.

* The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted according to the specified [comparator].

* @sample samples.collections.Collections.Lists.binarySearchWithComparator

List<T>.binarySearch(element: T, comparator: Comparator<T>, fromIndex: Int = 0, toIndex: Int = size): Int

* @return the index of the element, if it is contained in the list within the specified range; otherwise, the inverted insertion point `(-insertion point - 1)`.

* The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.

* @sample samples.collections.Collections.Lists.binarySearchWithComparator

List<T>.binarySearchByKey(key: K?, fromIndex: Int = 0, toIndex: Int = size, crossinline selector: (T) -> K?): Int

* Searches this list or its range for an element having the key returned by the specified [selector] function equal to the given [key].

* @return the index of the element with the specified [key], if it is contained in the list within the specified range; otherwise, the inverted insertion point `(-insertion point - 1)`.

* The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.

* @sample samples.collections.Collections.Lists.binarySearchByKey

List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int

* Checks that `from` and `to` are in the range of [0..size] and throws an appropriate exception, if they aren't.

* @param comparison function that returns zero when called on the list element being searched.

* @return the index of the found element, if it is contained in the list within the specified range; otherwise, the inverted insertion point `(-insertion point - 1)`.

* The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted.

* @sample samples.collections.Collections.Lists.binarySearchWithComparisonFunction
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:UseExperimental(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.
 * @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.
 * @sample samples.collections.Maps.Instantiation.mapFromPairs
 */
public fun <K , V> mapOf(vararg pairs: Pair<K ,
V> ) :
Map<K , V> = mapOf(pairs.toMap(mapCapacity(pairs.size)))

/**
 * Returns an empty new [MutableMap].
 * The returned map preserves the entry iteration order.
 * @sample
samples.collections.Maps.Instantiation.mutableMapFromPairs
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <K, V> mutableMapOf(): MutableMap<K , V> = LinkedHashMap()

/**
 * Returns a new [HashMap] with the specified contents, given as a list of pairs
 where the first component is the key and the second is the value.
 * @sample
samples.collections.Maps.Instantiation.hashMapFromPairs
 */
public fun <K, V> hashMapOf(pairs: Collection<Pair<K,
V>>): HashMap<K, V> = HashMap(pairs.size)

/**
 * Returns an empty new [LinkedHashMap].
 * @sample
samples.collections.Maps.Instantiation.linkedMapFromPairs
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <K, V> linkedMapOf(): LinkedHashMap<K,
V> = LinkedHashMap()

/**
 * Returns a new [LinkedHashMap] with the specified contents, given as a list of pairs
 where the first component is the key and the second is the value.
 * @sample
samples.collections.Maps.Instantiation.linkedHashMapFromPairs
 */
public fun <K, V> linkedHashMapOf(pairs: Collection<Pair<K,
V>>): LinkedHashMap<K, V> = LinkedHashMap(pairs.size)

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samples.collections.Maps.Instantiation.linkedMapFromPairs

/**
 * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction] and returning a read-only map with the same key-value pairs.
 * The map passed as a receiver to the [builderAction] is valid only inside
 * that function. Using it outside of the function produces an unspecified behavior.
 * Entries of the map are iterated in the order they were added by the [builderAction].
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public fun <K, V> linkedMapOf(vararg pairs: Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))).buildMapOf(pairs)

/**
 * Builds
 * a new read-only 
 * `Map`
 * by populating a 
 * `MutableMap`
 * using the
 * given `builderAction`
 * and returning a read-only
 * map with the
 * same key-value pairs.
 * The map passed as a receiver
 * to the `builderAction`
 * is valid only inside
 * that function.
 * Using it outside of the function
 * produces an unspecified behavior.
 * Entries of the map are iterated
 * in the order they were added by
 * the `builderAction`.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <K, V> buildMap(@BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {
    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) returns (true)
    }
    return LinkedHashMap<K, V>().buildMapOf(pairs)
}

/**
 * Builds a new read-only 
 * `Map`
 * by populating a 
 * `MutableMap`
 * using the 
 * given `builderAction`
 * and returning a read-only 
 * map with the same key-value pairs.
 * The map passed as a receiver 
 * to the `builderAction`
 * is valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 * Entries of the map are iterated in the order they were added by the `builderAction`.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {
    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) returns (true)
    }
    return LinkedHashMap<K, V>(mapCapacity(capacity)).buildMapOf(pairs)
}

/**
 * Calculate the initial 
 * capacity of a map.
 */
@PublishedApi
internal expect fun mapCapacity(expectedSize: Int): Int

/**
 * Checks a collection builder function capacity argument.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@PublishedApi
internal expect fun checkBuilderCapacity(capacity: Int)

/** Returns `true` if this map is not empty.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.isNotEmpty(): Boolean = !isEmpty()

/**
 * Returns `true` if this nullable map is either null or empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }

    return this == null || isEmpty()
}

/**
 * Returns this map if it's not empty
 * or the result of calling `defaultValue` function if the map is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =
    if (isEmpty())
        defaultValue()
    else
        this

/**
 * Checks if the map contains the given key.
 */
@kotlin.internal.InlineOnly
public inline operator fun <@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =
    containsKey(key)

/**
 * Returns the value corresponding to the given key, or `null` if such a key is not present in the map.
 */
@kotlin.internal.InlineOnly
public inline operator fun <@kotlin.internal.OnlyInputTypes K> Map<out K, V>?.get(key: K): V? =
    get(key)
`.containsKey(key)`

> Returns `true` if the map maps one or more keys to the specified value.

This method allows to use destructuring declarations when working with maps, for example: `\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\n * Allows to overcome type-safety restriction of 'remove' that requires to pass a key of type `K`.\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\n * This method also allows to use destructuring declarations when working with maps, for example: `\n * // do something with the key and the value\n * @sample samples.collections.Maps.Usage.containsValue\n * Returns the value component of the map entry.\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\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 * @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 * 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 * Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.\n * Returns a [MutableIterator] over the mutable entries in the [MutableMap].\n * [destination] map with entries having the keys of this map and the values obtained\n * by applying the [transform] function to each entry in this [Map].\n * [destination] map with entries having the keys obtained\n * by applying the [transform] function to each entry in this [Map] and the values of this map.\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the value associated with the former one.\n * `null` * @public inline public inline fun <K, V> MutableMap\n * in \n | V> .mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> V): M

```kotlin
/**
 * Returns `true` if the map maps one or more keys to the specified value that requires to pass a value of type `V`.\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\n * This method also allows to use destructuring declarations when working with maps, for example: `\n * // do something with the key and the value\n * @sample samples.collections.Maps.Usage.containsValue\n * Returns the value component of the map entry.\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\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 * [destination] map with entries having the keys of this map and the values obtained\n * by applying the [transform] function to each entry in this [Map].\n * [destination] map with entries having the keys obtained\n * by applying the [transform] function to each entry in this [Map] and the values of this map.\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the value associated with the former one.\n * `null` * @public inline public inline fun <K, V> MutableMap\n * in \n | V> .mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> V): M
```

---

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return entries.associateByTo(destination, transform, { it.value })

/**
 * Puts all the given [pairs] into this [MutableMap] with the first component in the pair being the key and the second the value.
 * @param pairs An array of pairs of key-value entries.
 * @param destination The map to which the pairs are added.
 * @param transform A function that maps each key-value entry to a new value.
 * @return A new map containing the transformed key-value entries.
 */
public fun <K, V> MutableList<in K, V>.putAll(pairs: Array<out Pair<K, V>>): Unit {
    for ((key, value) in pairs) {
        put(key, value)
    }
}

/**
 * Puts all the elements of the given collection into this [MutableMap] with the first
 * component in the pair being the key and the second the value.
 * @param pairs The collection of pairs to be added.
 * @param destination The map to which the pairs are added.
 * @param transform A function that maps each key-value entry to a new value.
 * @return A new map containing the transformed key-value entries.
 */
public fun <K, V> MutableList<in K, V>.putAll(pairs: Sequence<out Pair<K, V>>): Unit {
    for ((key, value) in pairs) {
        put(key, value)
    }
}

/**
 * Returns a new map with entries having the keys of the given sequence and the values obtained by applying the [transform] function
 * to each entry in this [Map].
 * @param sequence The sequence of entries to be added.
 * @param transform A function that maps each entry to a new value.
 * @return A new map containing the transformed key-value entries.
 */
public inline fun <K, V, R> Map<K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {
    return mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()
}

/**
 * Returns a new map with entries having the keys obtained by applying the [transform] function to each entry in this [Map] and the values of this map.
 * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite the value associated with the former one.
 * The returned map preserves the entry iteration order of the original map.
 * @param transform A function that maps each entry to a new key.
 * @return A new map containing the key-value entries.
 */
    return mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()
}

/**
 * Returns a map containing all key-value pairs with keys matching the given [predicate].
 * The returned map preserves the entry iteration order of the original map.
 * @param predicate A function that checks if a key matches.
 * @return A new map containing the matching key-value pairs.
 */
public inline fun <K, V> Map<K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {
    val result = LinkedHashMap<K, V>()
    for (entry in this) {
        if (predicate(entry.key)) {
            result.put(entry.key, entry.value)
        }
    }
    return result
}

/**
 * Returns a map containing all key-value pairs with values matching the given [predicate].
 * The returned map preserves the entry iteration order of the original map.
 * @param predicate A function that checks if a value matches.
 * @return A new map containing the matching key-value pairs.
 */
public inline fun <K, V> Map<K, V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {
    val result = LinkedHashMap<K, V>()
    for (entry in this) {
        if (predicate(entry.value)) {
            result.put(entry.key, entry.value)
        }
    }
    return result
}

/**
 * Appends all entries matching the given [predicate] into the mutable map given as [destination]
 * parameter. The returned map preserves the entry iteration order of the original map.
 * @param destination The destination map.
 * @param predicate A function that checks if an entry matches.
 * @return A new map containing the matching key-value pairs.
 */
    for (element in this) {
        if (predicate(element)) {
            destination.put(element.key, element.value)
        }
    }
    return destination
}

/**
 * Returns a new map containing all key-value pairs not matching the given [predicate].
 * The returned map preserves the entry iteration order of the original map.
 * @param predicate A function that checks if an entry does not match.
 * @return A new map containing the non-matching key-value pairs.
 */
    return filterNotTo(LinkedHashMap<K, V>(), predicate)
}

/**
 * Returns a new map containing all key-value pairs matching the given [predicate].
 * The returned map preserves the entry iteration order of the original map.
 * @param predicate A function that checks if an entry matches.
 * @return A new map containing the matching key-value pairs.
 */
    return filterTo(LinkedHashMap<K, V>(), predicate)
}

/**
 * Returns a new map containing all key-value pairs not matching the given [predicate].
 * The returned map preserves the entry iteration order of the original map.
 * @param predicate A function that checks if an entry does not match.
 * @return A new map containing the non-matching key-value pairs.
 */
    return filterNotTo(LinkedHashMap<K, V>(), predicate)
}
same key the last one gets added to the map.\n */
public fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {
    if (this is Collection) {
        return when (size) {
            0 -> emptyMap()
            1 -> mapOf(if (this is List) this[0] else iterator().next())
            else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
        }
    } else return toMap(LinkedHashMap<K, V>(), optimizeReadOnlyMap(this)).\n
    * Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.\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 */
public fun <K, V, M : MutableMap<K, V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\n    destination.apply {
        putAll(this@toMap) \n    } \n
    * Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.\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 */
public fun <K, V, M : MutableMap<K, V>> Sequence<Pair<K, V>>.toMap(destination: M): M =\n    destination.apply {
        putAll(this@toMap) \n    } \n
    * Populates and returns a new read-only map containing all key-value pairs from the given array of pairs.\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 array.\n */
public fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> = when (size) {
    0 -> emptyMap()
    1 -> mapOf(this[0])
    else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)), optimizeReadOnlyMap()) \n
    * Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.\n */
public fun <K, V, M : MutableMap<K, V>> Array<out Pair<K, V>>.toMap(destination: M): M =\n    destination.apply {
        putAll(this@toMap) \n    } \n
    * Populates and returns the [destination] mutable map with key-value pairs from the given map.\n */
public fun <K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) {
    0 -> emptyMap()
    1 -> mapOf(\n        \n        */
public fun <K, V> Map<out K, V>.toMap(destination: M): M =\n    destination.apply {
        putAll(this@toMap) \n    } \n
    * Populates and returns a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].\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 */
public 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
    * Populates and returns a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs].\n * The returned map preserves the entry iteration order of the original array.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs].\n */
public fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =\n    if (this.isEmpty()) \n        LinkedHashMap(this).apply {
            putAll(pairs) \n        } \n    else LinkedHashMap(this).apply {
        putAll(pairs) \n    } \n
    * Populates and returns a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].\n * The returned map preserves the entry iteration order of the original map.\n */
public fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =\n    LinkedHashMap(this).apply {
        putAll(pairs) \n    } \n
    * Populates and returns a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].\n * The returned map preserves the entry iteration order of the original map.\n */
public fun <K, V> Map<out K, V>.plus(): Map<K, V> =\n    LinkedHashMap(this).apply {
        putAll(map) \n    } \n
    * Appends or replaces...
the given [pair] in this mutable map.\n */\nMutableMap\<in K, in V>\>\} {\n    putAll(pairs)\n}\n// Returns a map containing all entries of the original map except those entries
// the keys of which are contained in the given [keys] collection.\n\n// The returned map preserves the entry iteration order of the original map.\n\n/**\n * Returns a map containing all entries of the original map except the entry with the given [key].\n */
@SinceKotlin("1.1")
public operator fun <K, V> Map\<out K, V\>\> \= this\.toMutableMap()\.apply \{ minusAssign(key) \}\.
\n/**\n * Removes the entry with the given [key] from this mutable map.\n */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap\<K, V\>\>\} {\n    remove(key)\n}\n// do not expose for now
@PublishedApi
internal fun <K, V> Map\<K, V\>\> optimizeReadOnlyMap() = when (size) {
    0 -> emptyMap()
    1 -> toSingletonMapOrSelf()\n    else -> this\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.

@file:kotlin.jvm.JvmMultifileClass\@file:kotlin.jvm.JvmName("\SetsKt\")\@file:UseExperimental(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections
\nimport kotlin.contracts.*
Nothing): Boolean = false
    override fun containsAll(elements: Collection<Nothing>): Boolean =
        elements.isEmpty()

    override fun iterator(): Iterator<Nothing> = EmptyIterator

    private fun readResolve(): Any = EmptySet
}

/**
 * Returns an empty read-only set. The returned set is serializable (JVM).
 * Elements of the set are iterated in the order they were specified.
 * The returned set is serializable (JVM).
 */
public fun <T> emptySet(): Set<T> = HashSet()

/**
 * Returns a new read-only set with the given elements.
 * The returned set preserves the element iteration order.
 */
@kotlin.internal.InlineOnly
public inline fun <T> setOf(): Set<T> = emptySet()

/**
 * Returns a new read-only set with the given elements.
 * Elements of the set are iterated in the order they were specified.
 * The returned set preserves the element iteration order.
 */
@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> setOf(vararg elements: T): Set<T> = setOf(elements)

/**
 * Returns an empty new [MutableSet].
 * The returned set preserves the element iteration order.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()

/**
 * Returns a new [MutableSet] with the given elements.
 * Elements of the set are iterated in the order they were specified.
 */
public fun <T> mutableSetOf(vararg elements: T): MutableSet<T> = mutableSetOf(elements)

/**
 * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction] and returning a read-only set with the same elements.
 * The set passed as a receiver to the [builderAction] is valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 * Elements of the set are iterated in the order they were added by the [builderAction].
 * [capacity] is used to hint the expected number of elements added in the [builderAction].
 * Elements of the set are iterated in the order they were added by the [builderAction].
 * @throws IllegalArgumentException if the given [capacity] is negative.
 * @sample samples.collections.Builders.Sets.buildSetSample
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {
    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
    checkBuilderCapacity(capacity)
    return LinkedHashSet<E>(mapCapacity(capacity)).apply(builderAction)
}

/**
 * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction] and returning a read-only set with the same elements.
 * The set passed as a receiver to the [builderAction] is valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 * Elements of the set are iterated in the order they were added by the [builderAction].
 * @throws IllegalArgumentException if the given [capacity] is negative.
 * @sample samples.collections.Builders.Sets.buildSetSample
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {
    contract {
        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
    return LinkedHashSet<E>().apply(builderAction)
}

/**
 * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction] and returning a read-only set with the same elements.
 * The set passed as a receiver to the [builderAction] is valid only inside that function.
 * Using it outside of the function produces an unspecified behavior.
 * Elements of the set are iterated in the order they were added by the [builderAction].
 * @throws IllegalArgumentException if the given [capacity] is negative.
 * @sample samples.collections.Builders.Sets.buildSetSample
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <E> buildSet() = buildSet()
return if (isNegative) result else -result
}

internal fun numberFormatError(input: String): Nothing = throw NumberFormatException("Invalid number format: '$input'")

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
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 */
@file:kotlin/jvm/JvmName("UnsignedKt")
@file:UseExperimental(ExperimentalUnsignedTypes::class)
package kotlin

import kotlin

@PublishedApi
internal fun uintDivide(v1: Int, v2: Int): Int = (v1 xor Int.MIN_VALUE).compareTo(v2)

@PublishedApi
internal fun ulongCompare(v1: Long, v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2)

@PublishedApi
internal fun uintRemainder(v1: Int, v2: Int): Int = (v1.toLong() % v2.toLong()).toInt() // Division and remainder are based on Guava's UnsignedLongs implementation

@PublishedApi
internal fun doubleToUInt(v: Double): UInt = when {
    v.isNaN() -> 0u
    v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE
    v >= UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE
    v <= Int.MAX_VALUE.toDouble() -> v.toInt().toUInt()
    else -> (v - Int.MAX_VALUE.toDouble()).toInt().toUInt() + Int.MAX_VALUE.toUInt() // Int.MAX_VALUE < v < UInt.MAX_VALUE
}

@PublishedApi
internal fun doubleToULong(v: Double): ULong = when {
    v.isNaN() -> 0u
    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE
    v >= ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE
    v < Long.MAX_VALUE.toDouble() -> v.toLong().toULong()
    else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL // Long.MAX_VALUE + 1 < v < ULong.MAX_VALUE
}

@PublishedApi
internal fun uintToDouble(v: Int): Double = (v and Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2

@PublishedApi
internal fun ulongToString(v: Long): String = ulongToString(v, 10)

/*
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 */
@file:kotlin/jvm/JvmMultiFileClass

package kotlin

fun CollectionsKt.<T>(list: List<T>): List<T> = list

package

fun buildIterable(iterator: () -> Iterator<T>): Iterable<T> = object :Iterable<T> {
    override fun iterator(): Iterator<T> = iterator()
}

fun iterable<T>(list: List<T>): Iterable<T> = buildIterable()
IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>): Iterable<IndexedValue<T>> {
    override fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())
}

/**
 * Returns the size of this iterable if it is known, or `null` otherwise.
 */
@PublishedApi
internal fun <T> Iterable<T>.collectionSizeOrNullable(): Int? = if (this is Collection<*>) this.size null

/**
 * Returns true when it's safe to convert this collection to a set without changing contains method behavior.
 */
@PublishedApi
internal fun <T> Iterable<T>.safeToConvertToSet(): Boolean = when (this) {
    is Collection ->
    when {
        source is Collection && source.size < 2 -> true
        else -> if (this.safeToConvertToSet()) toHashSet() else false
    }
    else -> true
}

/**
 * Converts this collection to a set, when it's worth so and it doesn't change contains method behavior.
 */
internal fun <T> Iterable<T>.convertToSet(): Set<T> = when (this) {
    is Collection ->
    when {
        source is Collection && source.size < 2 ->
        else -> if (this.safeToConvertToSet()) toHashSet() else this
    }
    else -> toHashSet()
}

/**
 * Converts this collection to a set, when it's worth so and it doesn't change contains method behavior.
 */
internal fun <T> Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =
    when (this) {
        is Collection ->
        when {
            source is Collection && source.size < 2 -> this
            else ->
                if (this.safeToConvertToSet()) toHashSet() else this
        }
        else -> toHashSet()
    }

/**
 * Returns a single list of all elements from all collections in the given collection.
 */
public fun <T> Iterable<Iterable<T>>.flatten(): List<T> {
    val result = ArrayList<T>()
    for (element in this) {
        result.addAll(element)
    }
    return result
}

/**
 * Returns a pair of lists, where
 * *first* list is built from the first values of each pair from this collection,
 * *second* list is built from the second values of each pair from this collection.
 */
public fun <T, R> Iterable<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {
    val expectedSize = collectionSizeOrDefault(10)
    val listT = ArrayList<T>(expectedSize)
    val listR = ArrayList<R>(expectedSize)
    for (pair in this) {
        listT.add(pair.first)
        listR.add(pair.second)
    }
    return listT to listR
}

/**
 * Given an [iterator] function constructs a [Sequence] that returns values through
 * the [Iterator] provided by that function.
 * The values are evaluated lazily, and the sequence is potentially
 * infinite.
 */
@SinceKotlin("1.3")
public inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
    override fun iterator(): Iterator<T> = iterator()
}

/**
 * Returns a sequence that iterates through the elements either of this sequence
 * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.
 */
@SinceKotlin("1.3")
public fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {
    val iterator =
private val sequence1: Sequence<T1>,
private val sequence2: Sequence<T2>,
private val transform: (T1, T2) -> V"
: Sequence<V
{
override fun iterator(): Iterator<V
= sequence1.iterator().plus(sequence2.iterator())

override fun hasNext(): V
{
return transform(iterator1.next(), iterator2.next())

override fun hasNextNext(): Boolean
{
return iterator1.hasNext() && iterator2.hasNext()

override fun hasNextNext(): V
{
return transform(iterator1.next(), iterator2.next())

override fun calcNext() {
if (iterator.hasNext()) {
val item = iterator.next()

if (predicate(item)) {
nextState = 1
nextItem = item
return
}
}

nextState = 0
}

override fun next() {
if (nextState == -1)

return

val item = iterator.next()

if (predicate(item)) {
nextState = 1
nextItem = item
return
}

while (itemIterator == null) {
if (!iterator.hasNext()) {
itemIterator = null
}
else {
val element = iterator.next()
val elementIterator = (if (elementIterator.hasNext()) elementIterator else iterator.transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (position >= endIndex)
throw NoSuchElementException()
position++
return

return (position < endIndex) && iterator.hasNext()
}

override fun next(): T
{
drop()

return iterator.next()

position++

return iterator.next()

val element = iterator.next()

val nextItemIterator = iterator(transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (!ensureItemIterator())
throw NoSuchElementException()

return itemIterator.next()

private fun calcNext() {
if (iterator.hasNext()) {
val item = iterator.next()

if (predicate(item)) {
nextState = 1
nextItem = item
return
}
}

nextState = 0
}

override fun next(): T
{
if (left == 0)
throw NoSuchElementException()
left--
return

val element = iterator.next()

val elementIterator = (if (elementIterator.hasNext()) elementIterator else iterator.transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (!ensureItemIterator())
throw NoSuchElementException()

return itemIterator.next()

private fun drop() {
while (position < startIndex && iterator.hasNext()) {
position++
}

return

override fun drop(n: Int): Sequence<T
{

val iterator = sequence.iterator()

var itemIterator: Iterator<E>? = null

override fun drop(n: Int): Sequence<T
{

val iterator = sequence.iterator()

var itemIterator: Iterator<E>? = null

private fun drop(): Boolean
{
if (itemIterator?.hasNext() == false)
itemIterator = null

while (itemIterator == null) {
if (!iterator.hasNext()) {
return false
}
else {
val element = iterator.next()
val elementIterator = (if (elementIterator.hasNext()) elementIterator else iterator.transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (!ensureItemIterator())
throw NoSuchElementException()

return itemIterator.next()

position++

return iterator.next()

val element = iterator.next()

val nextItemIterator = iterator(transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (!ensureItemIterator())
throw NoSuchElementException()

return itemIterator.next()

private fun drop() {
while (position < startIndex && & iterator.hasNext()) {

val iterator = sequence.iterator()

var itemIterator: Iterator<E>? = null

override fun drop(n: Int): Sequence<T
{

val iterator = sequence.iterator()

var itemIterator: Iterator<E>? = null

private fun drop(): Boolean
{
if (itemIterator?.hasNext() == false)
itemIterator = null

while (itemIterator == null) {
if (!iterator.hasNext()) {
return false
}
else {
val element = iterator.next()
val elementIterator = (if (elementIterator.hasNext()) elementIterator else iterator.transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (!ensureItemIterator())
throw NoSuchElementException()

return itemIterator.next()

position++

return iterator.next()

val element = iterator.next()

val nextItemIterator = iterator(transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (!ensureItemIterator())
throw NoSuchElementException()

return itemIterator.next()

private fun drop() {
while (position < startIndex && & iterator.hasNext()) {

val iterator = sequence.iterator()

var itemIterator: Iterator<E>? = null

override fun drop(n: Int): Sequence<T
{

val iterator = sequence.iterator()

var itemIterator: Iterator<E>? = null

private fun drop(): Boolean
{
if (itemIterator?.hasNext() == false)
itemIterator = null

while (itemIterator == null) {
if (!iterator.hasNext()) {
return false
}
else {
val element = iterator.next()
val elementIterator = (if (elementIterator.hasNext()) elementIterator else iterator.transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (!ensureItemIterator())
throw NoSuchElementException()

return itemIterator.next()

position++

return iterator.next()

val element = iterator.next()

val nextItemIterator = iterator(transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (!ensureItemIterator())
throw NoSuchElementException()

return itemIterator.next()

private fun drop() {
while (position < startIndex && & iterator.hasNext()) {

val iterator = sequence.iterator()

var itemIterator: Iterator<E>? = null

override fun drop(n: Int): Sequence<T
{

val iterator = sequence.iterator()

var itemIterator: Iterator<E>? = null

private fun drop(): Boolean
{
if (itemIterator?.hasNext() == false)
itemIterator = null

while (itemIterator == null) {
if (!iterator.hasNext()) {
return false
}
else {
val element = iterator.next()
val elementIterator = (if (elementIterator.hasNext()) elementIterator else iterator.transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (!ensureItemIterator())
throw NoSuchElementException()

return itemIterator.next()

position++

return iterator.next()

val element = iterator.next()

val nextItemIterator = iterator(transformer(element))

if (nextItemIterator?.hasNext() == false)
nextItemIterator = null

return

if (!ensureItemIterator())
throw NoSuchElementException()

return itemIterator.next()
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. The sequence produces values until it encounters first `null` value. If the sequence produces values until it encounters first `null` value, an empty sequence is produced. The sequence can be iterated multiple times, each time starting with [seed].

```kotlin
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("PreconditionsKt")

package

import kotlin.contracts.contract

/**
 * Throws an [IllegalArgumentException] if the [value] is false.
 * @sample samples.misc.Preconditions.failRequireWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean): Unit {
    contract {
        returns() implies value
    }
    require(value) { "Failed requirement." }
}

/**
 * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failRequireWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value
    }
    if (!value) {
        val message = lazyMessage()
        throw IllegalArgumentException(message.toString())
    }
}

/**
 * Throws an [IllegalStateException] if the [value] is null. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun check(value: Boolean): Unit {
    contract {
        returns() implies value
    }
    check(value) { "Check failed." }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value
    }
    if (!value) {
        val message = lazyMessage()
        throw IllegalStateException(message.toString())
    } else {
        return value
    }
}
```
inline fun <T : Any> checkNotNull(value: T?): T {
    contract {
        returns() implies (value != null)
    }

    return checkNotNull(value) { "Required value was null." }
}

/**
 * Throws an [IllegalStateException] with [lazyMessage] if the [value] is null. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
    contract {
        returns() implies (value != null)
    }

    if (value == null) {
        val message = lazyMessage()
        throw IllegalStateException(message.toString())
    } else {
        return value
    }
}

/**
 * Throws an [IllegalStateException] with the given [message].
 * @sample samples.misc.Preconditions.failWithError
 */
@kotlin.internal.InlineOnly
public inline fun error(message: Any): Nothing = throw IllegalStateException(message.toString())

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun <T> Array<out T>.elementAt(index: Int): T {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns a [List] that wraps the original array.
 * @sample samples.collections.Collections.Arrays.asList
 */
public actual fun <T> Array<out T>.asList(): List<T> {
    return ArrayList<T>(this.unsafeCast<Array<Any?>>())
}

/**
 * Returns a [List] that wraps the original array.
 * @sample samples.collections.Collections.Arrays.asList
 */
public actual fun <T> Array<out T>.asList(): List<T> {
    return ArrayList<T>(this.unsafeCast<Array<Any?>>())
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun ByteArray.elementAt(index: Int): Byte {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns a [List] that wraps the original array.
 * @sample samples.collections.Collections.Arrays.asList
 */
public actual fun <T> Array<out T>.asList(): List<T> {
    return ArrayList<T>(this.unsafeCast<Array<Any?>>())
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun ShortArray.elementAt(index: Int): Short {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun IntArray.elementAt(index: Int): Int {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun LongArray.elementAt(index: Int): Long {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun FloatArray.elementAt(index: Int): Float {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun DoubleArray.elementAt(index: Int): Double {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun BooleanArray.elementAt(index: Int): Boolean {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns a [List] that wraps the original array.
 * @sample samples.collections.Collections.Arrays.asList
 */
public actual fun <T> Array<out T>.asList(): List<T> {
    return ArrayList<T>(this.unsafeCast<Array<Any?>>())
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @sample samples.collections.Collections.Elements.elementAt
 */
public actual fun CharArray.elementAt(index: Int): Char {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * Returns a [List] that wraps the original array.
 * @sample samples.collections.Collections.Arrays.asList
 */
public actual fun <T> Array<out T>.asList(): List<T> {
    return ArrayList<T>(this.unsafeCast<Array<Any?>>())
}
original array.


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 original array.
* 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("1.1")*\n@library("arrayEquals")\npublic actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayEquals")\npublic actual infix fun IntArray.contentEquals(other: IntArray): Boolean {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayEquals")\npublic actual infix fun LongArray.contentEquals(other: LongArray): Boolean {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayEquals")\npublic actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayEquals")\npublic actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayEquals")\npublic actual infix fun CharArray.contentEquals(other: CharArray): Boolean {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayHashCode")\npublic actual fun <T> Array<out T>.contentHashCode(): Int {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayHashCode")\npublic actual fun ByteArray.contentHashCode(): Int {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayHashCode")\npublic actual fun ShortArray.contentHashCode(): Int {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayHashCode")\npublic actual fun IntArray.contentHashCode(): Int {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayHashCode")\npublic actual fun LongArray.contentHashCode(): Int {\n    definedExternally\n\n* 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("1.1")*\n@library("arrayHashCode")\npublic actual fun DoubleArray.contentHashCode(): Int {\n    definedExternally\n\n* 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'.
contents of this array as if it is [List].

```kotlin
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun BooleanArray.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayHashCode")
public actual fun CharArray.contentHashCode(): Int {
    definedExternally
}

/**
 * Returns a string representation of the contents of this array as if it is [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public 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].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun ByteArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun ShortArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun IntArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun LongArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun FloatArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun DoubleArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun BooleanArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
 * [List].
 */
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun CharArray.contentToString(): String {
    definedExternally
}

/**
 * Copies this array or its subrange into the [destination] array and returns that
 * array.
 */
@SinceKotlin("1.1")
@library("arrayCopy")
public actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {
    arrayCopy(this, destination, destinationOffset, startIndex, endIndex)
    return destination
}
```

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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 [IllegalArgumentOutOfRangeException] when [startIndex] or [ endIndex] is out of range of this array 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 {
    arrayCopy(this.unsafeCast<Array<Byte>>(\n    ), destination.unsafeCast<Array<Byte>>(\n    ), destinationOffset, startIndex, endIndex)\n    return destination\n}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * 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 [IllegalArgumentOutOfRangeException] when [startIndex] or [ endIndex] is out of range of this array 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@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {
    arrayCopy(this.unsafeCast<Array<Short>>(\n    ), destination.unsafeCast<Array<Short>>(\n    ), destinationOffset, startIndex, endIndex)\n    return destination\n}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * 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 [IllegalArgumentOutOfRangeException] when [startIndex] or [ endIndex] is out of range of this array 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@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {
    arrayCopy(this.unsafeCast<Array<Int>>(\n    ), destination.unsafeCast<Array<Int>>(\n    ), destinationOffset, startIndex, endIndex)\n    return destination\n}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * 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 [IllegalArgumentOutOfRangeException] when [startIndex] or [ endIndex] is out of range of this array 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@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {
    arrayCopy(this.unsafeCast<Array<Long>>(\n    ), destination.unsafeCast<Array<Long>>(\n    ), destinationOffset, startIndex, endIndex)\n    return destination\n}
destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex) return destination

* Copies this array or its subrange into the [destination] array and returns that array.
* @param destination the array to copy to.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex) return destination

* Copies this array or its subrange into the [destination] array and returns that array.
* @param destination the array to copy to.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex) return destination

* Copies this array or its subrange into the [destination] array and returns that array.
* @param destination the array to copy to.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex) return destination

* Copies this array or its subrange into the [destination] array and returns that array.
* @param destination the array to copy to.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* Copies this array or its subrange into the [destination] array and returns that array.
* @param destination the array to copy to.
* @param destinationOffset the position in the [destination] array to copy to, 0 by default.
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

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starting at the specified [destinationOffset].
 * or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
import java.util.Arrays;
public actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): CharArray {
    arrayCopy(this.unsafeCast<Array<Char>>(),
destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
public actual inline fun <T> Array<out T>.copyOf(): Array<T> {
    return this.asDynamic().slice()
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
public actual inline fun ByteArray.copyOf(): ByteArray {
    return this.asDynamic().slice()
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
public actual inline fun ShortArray.copyOf(): ShortArray {
    return this.asDynamic().slice()
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
public actual inline fun IntArray.copyOf(): IntArray {
    return this.asDynamic().slice()
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
public actual inline fun LongArray.copyOf(): LongArray {
    return withType("LongArray",
this.asDynamic().slice())
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
public actual inline fun FloatArray.copyOf(): FloatArray {
    return this.asDynamic().slice()
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
public actual inline fun DoubleArray.copyOf(): DoubleArray {
    return this.asDynamic().slice()
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
public actual fun BooleanArray.copyOf(): BooleanArray {
    return withType("BooleanArray",
this.asDynamic().slice())
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun ByteArray.copyOf(newSize: Int): ByteArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, ByteArray(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun ShortArray.copyOf(newSize: Int): ShortArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, ShortArray(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun IntArray.copyOf(newSize: Int): IntArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, IntArray(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun LongArray.copyOf(newSize: Int): LongArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, LongArray(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun FloatArray.copyOf(newSize: Int): FloatArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, FloatArray(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, DoubleArray(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, BooleanArray(newSize))
}
public actual fun IntArray.copyOf(newSize: Int): IntArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, IntArray(newSize)).copyOfRange(0, newSize) * Returns new array which is a copy of the original array, resized to the given [newSize].
* The copy is either truncated or padded at the end with zero values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
  * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
}

/**
 * Returns new array which is a copy of the original array, resized to the given 
 * [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the 
 * [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * - @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */

public actual fun LongArray.copyOf(newSize: Int): LongArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("LongArray", arrayCopyResize(this, newSize, 0L)).copyOfRange(0, newSize) * Returns new array which is a copy of the original array, resized to the given [newSize].
* The copy is either truncated or padded at the end with zero values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the 
[newSize].
* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
  * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
}

/**
 * Returns new array which is a copy of the original array, resized to the given 
 * [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the 
 * [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * - @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */

public actual fun FloatArray.copyOf(newSize: Int): FloatArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, FloatArray(newSize)).copyOfRange(0, newSize) * Returns new array which is a copy of the original array, resized to the given [newSize].
* The copy is either truncated or padded at the end with zero values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
  * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
}

/**
 * Returns new array which is a copy of the original array, resized to the given 
 * [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the 
 * [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * - @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */

public actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, DoubleArray(newSize)).copyOfRange(0, newSize) * Returns new array which is a copy of the original array, resized to the given [newSize].
* The copy is either truncated or padded at the end with zero values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
  * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
}

/**
 * Returns new array which is a copy of the original array, resized to the given 
 * [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the 
 * [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * - @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */

public actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("BooleanArray", arrayCopyResize(this, newSize, false)).copyOfRange(0, newSize) * Returns new array which is a copy of the original array, resized to the given [newSize].
* The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
* - 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.
  * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
}

/**
 * Returns new array which is a copy of the original array, resized to the given 
 * [newSize].
 * The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - 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.
 * - @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */

public actual fun CharArray.copyOf(newSize: Int): CharArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("CharArray", fillFrom(this, CharArray(newSize))).copyOfRange(0, newSize) * Returns new array which is a copy of the original array, resized to the given [newSize].
* The copy is either truncated or padded at the end with null values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null values.
  * @sample
samples.collections.Arrays.CopyOfOperations.resizedCopyOf
}

public actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T> {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return arrayCopyResize(this, newSize, null).copyOfRange(0, newSize) * Returns a new array which is a copy of the specified range of the original array.
* The copy is either truncated or padded at the end with `null` values if necessary.
* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.
  * @sample
samples.collections.Arrays.CopyOfOperations.resizingCopyOf

*\@Suppress("ACTUAL_WITHOUT_EXPECT")\public actual fun <T> Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {
    AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\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), must be in `0..array.size`\n**\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n**\n
*\n
*\n
@public actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\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), must be in `0..array.size`\n**\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n**\n
*\n
*\n
@public actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\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), must be in `0..array.size`\n**\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n**\n
*\n
*\n
@public actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\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), must be in `0..array.size`\n**\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n**\n
*\n
*\n
@public actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType("LongArray", this.asDynamic().slice(fromIndex, toIndex))\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), must be in `0..array.size`\n**\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n**\n
*\n
*\n
@public actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\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), must be in `0..array.size`\n**\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n**\n
*\n
*\n
@public actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\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), must be in `0..array.size`\n**\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n**\n
*\n
*\n
@public actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType("BooleanArray", this.asDynamic().slice(fromIndex, toIndex))\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), must be in `0..array.size`\n**\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n**\n
*\n
*\n
@public actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType("CharArray", this.asDynamic().slice(fromIndex, toIndex))\n
*\n
** Fills this array or its subrange with the specified [element] value.\n**\n
* @param fromIndex the start of the range (inclusive), 0 by default.\n**\n
* @param toIndex the end of the range (exclusive), 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
*\n
@public actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    this.asDynamic().fill(element, fromIndex, toIndex)\n
*\n
** Fills this array or its subrange with the specified [element] value.\n**\n
* @param fromIndex the start of the range (inclusive), 0 by default.\n**\n
* @param toIndex the end of the range (exclusive), 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
*\n
Open Source Used In CKC - Time Series Data Engine 1.2.2.4  6046
is greater than the size of this array.

@Throws(IllegalArgumentException if [fromIndex] is greater than [toIndex]).

实际的函数 ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\nAbstractList.checkRangeIndexes(fromIndex, toIndex, size)\nthis.asDynamic().fill(element, fromIndex, toIndex)\n\n\n* Fills this array or its subrange with the specified [element] value.

* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), 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].

实际的函数 ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\nAbstractList.checkRangeIndexes(fromIndex, toIndex, size)\nthis.asDynamic().fill(element, fromIndex, toIndex)\n\n\n* Fills this array or its subrange with the specified [element] value.

* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), 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].

实际的函数 IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\nAbstractList.checkRangeIndexes(fromIndex, toIndex, size)\nthis.asDynamic().fill(element, fromIndex, toIndex)\n\n\n* Fills this array or its subrange with the specified [element] value.

* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), 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].

实际的函数 LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\nAbstractList.checkRangeIndexes(fromIndex, toIndex, size)\nthis.asDynamic().fill(element, fromIndex, toIndex)\n\n\n* Fills this array or its subrange with the specified [element] value.

* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), 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].

实际的函数 FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\nAbstractList.checkRangeIndexes(fromIndex, toIndex, size)\nthis.asDynamic().fill(element, fromIndex, toIndex)\n\n\n* Fills this array or its subrange with the specified [element] value.

* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), 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].

实际的函数 DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\nAbstractList.checkRangeIndexes(fromIndex, toIndex, size)\nthis.asDynamic().fill(element, fromIndex, toIndex)\n\n\n* Fills this array or its subrange with the specified [element] value.

* @param fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), 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].

*/
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public
actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), 0 by default.
 * @param toIndex the end of the range (exclusive), 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].
 */
@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public
actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 * @param <T> Array<T> plus(element: T): Array<T> {
 * @returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {
    return this.asDynamic().concat(arrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun ByteArray.plus(element: Byte): ByteArray {
    return plus(byteArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun ShortArray.plus(element: Short): ShortArray {
    return plus(shortArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun IntArray.plus(element: Int): IntArray {
    return plus(intArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun LongArray.plus(element: Long): LongArray {
    return plus(longArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun FloatArray.plus(element: Float): FloatArray {
    return plus(floatArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun DoubleArray.plus(element: Double): DoubleArray {
    return plus(doubleArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun CharArray.plus(elements: Collection<Char>): CharArray {
    return plus(charArrayOf(elements))
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@Suppress("NOTHING_TO_INLINE")
public
actual inline operator fun IntArray.plus(elements: Collection<Int>): IntArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
Elements.size(), this.size, elements\n\n/** * Returns an array containing all elements of the original array and then all elements of the given [elements] collection. */
public actual operator fun LongArray.plus(elements: Collection<Long>): LongArray { return arrayPlusCollection(this, elements) }
samples.collections.Arrays.Sorting.sortArray

```kotlin
public actual fun LongArray.sort(): Unit {
    if (size > 1) sort {
        a: Long, b: Long -> a.compareTo(b) }
    }
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public actual fun ByteArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public actual fun ShortArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public actual fun IntArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public actual fun LongArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public actual fun FloatArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public actual fun CharArray.sort(): Unit {
    definedExternally
}

/**
 * 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
 */
public actual fun <T : Comparable<T>> Array<out T>.sort(): Unit {
    if (size > 1) sortArray(this)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable
 */
public fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit {
    if (size > 1) sortArrayWith(this, comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given [comparison] function.
 * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {
    asDynamic().sort(comparison)
}
```

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object array containing all of the elements of this primitive array.\n */
public actual fun
DoubleArray.toTypedArray(): Array<Double> {\n    return js("\[['"]\]").slice.call(this)\n}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.\n */
public actual fun
BooleanArray.toTypedArray(): Array<Boolean> {\n    return js("\[['"]\]").slice.call(this)\n}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.\n */
public actual fun
CharArray.toTypedArray(): Array<Char> {\n    return Array(size) { index -> this[index] }\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
package\n\n\n/**
 * Compares two values using the specified functions [selectors] to calculate the result of the comparison.\n * The functions are called sequentially, receiving the given values [a] and [b] and return \n[Comparable] * objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do not compare as equal, the result of that comparison is returned.\n */
public fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {\n    require(selectors.size > 0)\n    return compareValuesByImpl(a, b, selectors)\n}

private 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}

/**
 * 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 */
@kotlin.internal.InlineOnly\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>?): Int {\n    return compareValues(selector(a), selector(b))\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 */
@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}

//// Not so useful without\n//// type inference for receiver of expression\n//// compareValuesWith(a, b)\n// **
//@Suppress("NOTHING_TO_INLINE")\n//public inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)\n
/**
 * Compares two nullable [Comparable] values. Null\n * is considered less than any value.\n */
public\n\nfun <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    @Suppress("UNCHECKED_CAST")\n    return (a as Comparable<Any>).compareTo(b)\n}

/**
 * Creates a comparator using the sequence of functions to calculate a result of comparison.\n * The functions are called sequentially, receiving the given values `a` and `b` and return \n[Comparable] * 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 \n[Comparator].\n */
public fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {\n    require(selectors.size > 0)\n    return Comparator { a, b ->\n        compareValuesByImpl(a, b, selectors)\n    }\n}

/**
 * Creates a comparator using the function to transform value being compared and then apply\n * the specified [comparator] to compare transformed values.\n */
@kotlin.internal.InlineOnly\npublic inline fun <T> compareBy(crossinline comparator: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b ->\n        compareValues(a, b, comparator)\n    }\n
/**
 * Creates a comparator using the [selector] function to transform values being compared and then apply\n * the specified [comparator] to compare transformed values.\n */
@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareBy(selector: (T) -> K, comparator: Comparator<in K>): Comparator<T> =\n    Comparator { a, b ->\n        compareValuesBy(a, b, selector, comparator)\n    }\n
Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6051
fun <T, K> compareBy(comparator: Comparator<in K>, crossineline selector: (T) -> K): Comparator<T> =
    Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }

fun <T, K> compareByDescending(comparator: Comparator<in K>, crossineline selector: (T) -> K): Comparator<T> =
    Comparator { a, b -> compareValuesBy(b, a, comparator, selector) }

/**
 * Creates a descending comparator using the [selector] function to transform values being compared and then
 * applying the specified [comparator] to compare transformed values.
 */
@kotlin.internal.InlineOnly
public inline fun <T> compareByDescendingWithSingleSelector(crossineline selector: (T) -> Comparable<*>?): Comparator<T> =
    Comparator { a, b -> compareValuesBy(b, a, comparator, selector) }

/**
 * Creates a comparator comparing values after the primary comparator defined them equal. It uses
 * the [selector] function to transform values and then compares them with the given [comparator].
 */
@kotlin.internal.InlineOnly
public inline fun <T, K> compareByDescendingWithComparator(crossineline selector: (T) -> Comparable<*>?): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenByDescending.compare(a, b)
        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector) }

/**
 * Combines this comparator and the given [comparator] such that the latter is applied only
 * when the former considered values equal.
 */
public infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =
    Comparator<T> { a, b ->
        val previousCompare = this@thenDescending.compare(a, b)
        if (previousCompare != 0) previousCompare else comparator.compare(a, b) }

Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6052
nullsFirst(comparator: Comparator<in T>): Comparator<T?> = \n Comparator { a, b -> when {
 a == null -> -1
 b == null -> 1
 else -> comparator.compare(a, b) } }

nullsLast(comparator: Comparator<in T>): Comparator<T?> = \n Comparator { a, b -> when {
 a == null -> 1
 b == null -> -1
 else -> comparator.compare(a, b) } }

naturalOrder(): Comparator<Comparable<Any>> = \n NaturalOrderComparator

reverseOrder(): Comparator<Comparable<Any>> = \n ReverseOrderComparator

Comparator<T>.reversed(): Comparator<T> = when (this) {
 ReversedComparator -> this.comparator
 NaturalOrderComparator -> ReverseOrderComparator
 ReverseOrderComparator -> NaturalOrderComparator
}

private class ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {
 override fun compare(a: T, b: T): Int = comparator.compare(b, a)
 @Suppress("VIRTUAL_MEMBER_HIDDEN")
 fun reversed(): Comparator<T> = comparator
}

private object NaturalOrderComparator : Comparator<Comparable<Any>> {
 override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)
 @Suppress("VIRTUAL_MEMBER_HIDDEN")
 fun reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator
}

private object ReverseOrderComparator : Comparator<Comparable<Any>> {
 override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)
 @Suppress("VIRTUAL_MEMBER_HIDDEN")
 fun reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator
}

Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6053

Not so useful without type inference for receiver of expression

\n\n\n\n
\n

nullsFirst(Comparator): Comparator<T?> = \n Comparator { a, b -> when {
 a == null -> -1
 b == null -> 1
 else -> comparator.compare(a, b) } }

// Not so useful without type inference for receiver of expression

/**
 * 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 */
public fun <T : Any>
nullsFirst(comparator: Comparator<in T>): Comparator<T?> = \n Comparator { a, b -> when {
 a == null -> -1
 b == null -> 1
 else -> comparator.compare(a, b) } }

/**
 * Provides a comparator of nullable [Comparable] values\n * considering \‘null\’ value less than any other value\n */
public fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> = \n Comparator { a, b -> when {
 a == null -> 1
 b == null -> -1
 else -> comparator.compare(a, b) } }

/**
 * Provides a comparator of nullable [Comparable] values\n * considering \‘null\’ value greater than any other value\n */
public fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> = \n Comparator { a, b -> when {
 a == null -> 1
 b == null -> -1
 else -> comparator.compare(a, b) } }

/**
 * Provides a comparator of nullable [Comparable] values\n * considering \‘null\’ value greater than any other value\n */
public fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> = \n Comparator { a, b -> when {
 a == null -> 1
 b == null -> -1
 else -> comparator.compare(a, b) } }
Error(message)\n\n/* * Always throws [NotImplementedError] stating that operation is not implemented. */

@kotlin.internal.InlineOnly
public inline fun TODO(): Nothing = throw NotImplementedError()

/**
 * Always throws [NotImplementedError] stating that operation is not implemented.
 * @param reason a string explaining why the implementation is missing.
 */
@kotlin.internal.InlineOnly
public inline fun TODO(reason: String): Nothing = throw NotImplementedError("An operation is not implemented: $reason")

/**
 * Calls the specified function [block] with its 'this' value as its receiver and returns its result.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).
 */
@kotlin.internal.InlineOnly
public inline fun <R> run(block: () -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block()
}

/**
 * Calls the specified function [block] with 'this' value as its receiver and returns its result.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).
 */
@kotlin.internal.InlineOnly
public inline fun <T, R> T.run(block: T.() -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block()
}

/**
 * Calls the specified function [block] with the given [receiver] as its receiver and returns its result.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).
 */
@kotlin.internal.InlineOnly
public inline fun <T, R> with(receiver: T, block: T.() -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return receiver.block()
}

/**
 * Calls the specified function [block] with 'this' value as its receiver and returns 'this' value.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).
 */
@kotlin.internal.InlineOnly
public inline fun <T> T.apply(block: T.() -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    block()
    return this
}

/**
 * Calls the specified function [block] with 'this' value as its argument and returns 'this' value.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).
 */
@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.also(block: (T) -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    block(this)
    return this
}

/**
 * Calls the specified function [block] with 'this' value as its argument and returns its result.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).
 */
@kotlin.internal.InlineOnly
public inline fun <T, R> T.let(block: (T) -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block(this)
}

/**
 * Returns 'this' value if it satisfies the given [predicate] or 'null', if it doesn't.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeIf).
 */
@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    }
    return if (predicate(this)) this else null
}

/**
 * Returns 'null' if the given [predicate] is satisfied, otherwise returns 'this' value.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeUnless).
 */
@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    }
    return if (!predicate(this)) this else null
}

/**
 * Returns the greater of two values.
 * If values are equal, returns the first one.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#maxOf).
 */
@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {
    return if (a >= b) a else b
}

//
// NOTE: THIS FILE IS AUTO-GENERATED by the
// GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Byte, b: Byte): Byte {
    return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()
} * Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Short, b: Short): Short {
    return Math.max(a.toInt(), b.toInt()).unsafeCast<Short>()
} * Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Int, b: Int): Int {
    return Math.max(a, b)
} * Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Long, b: Long): Long {
    return if (a >= b) a else b
} * Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Float, b: Float): Float {
    return Math.max(a, b)
} * Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Double, b: Double): Double {
    return Math.max(a, b)
} * Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Byte, b: Byte): Byte {
    return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()
} * Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Short, b: Short): Short {
    return Math.min(a.toInt(), b.toInt()).unsafeCast<Short>()
} * Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Int, b: Int): Int {
    return Math.min(a, b)
} * Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Long, b: Long): Long {
    return if (a <= b) a else b
} * Returns the smaller of two values.
inline fun minOf(a: Float, b: Float): Float {
    return Math.min(a, b)
} \n
/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Double, b: Double): Double {
    return Math.min(a, b)
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.min(a.toInt(), b.toInt(),
        c.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Short, b: Short, c: Short): Short {
    return Math.min(a.toInt(), b.toInt(),
        c.toInt()).unsafeCast<Short>()
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Int, b: Int, c: Int): Int {
    return Math.min(a, b, c)
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Long, b: Long, c: Long): Long {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Float, b: Float, c: Float): Float {
    return Math.min(a, b, c)
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
public actual inline fun minOf(a: Double, b: Double, c: Double): Double {
    return Math.min(a, b, c)
}

/**
 * Returns 1st *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component1(): T {
    return get(0)
}

/**
 * Returns 2nd *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 2.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component2(): T {
    return get(1)
}

/**
 * Returns 3rd *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 3.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component3(): T {
    return get(2)
}

/**
 * Returns 4th *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component4(): T {
    return get(3)
}

/**
 * Returns 5th *element* from the list.
 * 
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 5.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component5(): T {
    return get(4)
}
get(index) * Returns an element at the given index or the result of calling the defaultValue function if the index is out of bounds of this collection.

samples.collections.Collections.Elements.elementAtOrElse

Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
    if (this is List)
        return this.getOrElse(index, defaultValue)
    if (index < 0)
        return defaultValue(index)
    var count = 0
    while (iterator.hasNext()) {
        if (index == count++)
            return iterator.next()
    }
    return defaultValue(index)
}

/**
 * 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.
 * 
 * @sample
 * samples.collections.Collections.Elements.elementAtOrElse
 */
public fun <T, U> List<T>.getOrElse(index: Int, defaultValue: (Int) -> U): U {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given index or null if the index is out of bounds of this list.
 * 
 * @sample
 * samples.collections.Collections.Elements.elementAtOrNull
 */
public fun <T> List<T>.getOrNull(index: Int): T? {
    return if (index >= 0 && index <= lastIndex)
        get(index)
    else
        null
}

/**
 * Returns an element at the given index or null if the index is out of bounds of this list.
 * 
 * @sample
 * samples.collections.Collections.Elements.elementAtOrNull
 */
@kotlin.internal.InlineOnly
public inline fun <T> List<T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns the first element matching the given predicate, or null if no such element was found.
 * 
 * @throws NoSuchElementException if the collection is empty.
 */
public inline fun <T> Iterable<T>.find(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Collection contains no element matching the predicate.")
}

/**
 * Returns the first element, or null if the collection is empty.
 */
public fun <T> Iterable<T>.firstOrNull(): T? {
    if (isEmpty())
        return null
    return iterator.next()
}

/**
 * Returns the first element, or null if the list is empty.
 */
public fun <T> List<T>.firstOrNull(): T? {
    if (isEmpty())
        return null
    return this[0]
}

/**
 * Returns the first element matching the given predicate, or null if element was not found.
 */
public inline fun <T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return element
    return null
}

/**
 * Returns the first element.
 * @throws NoSuchElementException if the list is empty.
 */
public fun <T> List<T>.first(): T {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws NoSuchElementException if the list is empty.
 */
public fun <T> List<T>.first(): T {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return this[0]
}

/**
 * Returns first index of element, or -1 if the collection
 */
public fun <T> List<T>.indexOf(element: T): Int {
    for (i in 0 until size) if (equals(element)) return i
    return -1
}

/**
 * Returns the first index matching the given predicate, or -1 if no such index was found.
 */
public inline fun <T> Iterable<T>.indexOf(predicate: (T) -> Boolean): Int {
    for (i in 0 until size) if (predicate(get(i))) return i
    return -1
}

/**
 * Returns the first index.
 * @throws NoSuchElementException if the list is empty.
 */
public fun <T> List<T>.indexOf(): Int {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return 0
}

/**
 * Returns the first index matching the given predicate, or -1 if no such index was found.
 */
public inline fun <T> Iterable<T>.indexOf(predicate: (T) -> Boolean): Int {
    for (i in 0 until size) if (predicate(get(i))) return i
    return -1
}

/**
 * Returns the first element.
 * @throws NoSuchElementException if the list is empty.
 */
public fun <T> List<T>.first(): T {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws NoSuchElementException if the list is empty.
 */
public fun <T> List<T>.first(): T {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return this[0]
}

/**
 * Returns the first element matching the given predicate, or null if element was not found.
 */
public inline fun <T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return element
    return null
}

/**
 * Returns the first element, or null if the collection is empty.
 */
public fun <T> Iterable<T>.firstOrNull(): T? {
    if (isEmpty())
        return null
    return iterator.next()
}

/**
 * Returns the first element, or null if the list is empty.
 */
public fun <T> List<T>.firstOrNull(): T? {
    if (isEmpty())
        return null
    return this[0]
}

/**
 * Returns the first element matching the given predicate, or null if no such element was found.
 */
public inline fun <T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return element
    return null
}

/**
 * Returns the first element.
 * @throws NoSuchElementException if the list is empty.
 */
public fun <T> List<T>.first(): T {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws NoSuchElementException if the list is empty.
 */
public fun <T> List<T>.first(): T {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return this[0]
}

/**
 * Returns the first index of element, or -1 if the collection
 */
public fun <T> List<T>.indexOf(element: T): Int {
    for (i in 0 until size) if (equals(element)) return i
    return -1
}

/**
 * Returns the first index matching the given predicate, or -1 if no such index was found.
 */
public inline fun <T> Iterable<T>.indexOf(predicate: (T) -> Boolean): Int {
    for (i in 0 until size) if (predicate(get(i))) return i
    return -1
}

/**
 * Returns the first index.
 * @throws NoSuchElementException if the list is empty.
 */
public fun <T> List<T>.indexOf(): Int {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return 0
}

/**
 * Returns the first index matching the given predicate, or -1 if no such index was found.
 */
public inline fun <T> Iterable<T>.indexOf(predicate: (T) -> Boolean): Int {
    for (i in 0 until size) if (predicate(get(i))) return i
    return -1
}

/**
 * Returns the first element.
 * @throws NoSuchElementException if the list is empty.
 */
public fun <T> List<T>.first(): T {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return this[0]
}

/**
 * Returns the first element.
 * @throws NoSuchElementException if the list is empty.
 */
public fun <T> List<T>.first(): T {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return this[0]
}
returns last index of `element`, or -1 if the collection does not contain such element.

```kotlin
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in

*public fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {
    var index = 0
    for (item in this) {
        if (element == item) {
            lastIndex = index
            return index
        }
        index++
    }
    return -1
}

*/
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in

*public fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    var index = 0
    for (item in this) {
        if (predicate(item)) {
            return index
        }
        index++
    }
    return -1
}

*/
@Suppress("UNCHECKED_CAST")

*/
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in

*public fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {
    if (this is List) return this.lastIndexOf(element)
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item) {
            lastIndex = index
            return index
        }
        index++
    }
    return -1
}

*/
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in

*public fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T): Int {
    if (this is List) return this.indexOf(element)
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item) {
            return index
        }
        index++
    }
    return -1
}

*/
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in

*public fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {
    var lastIndex = -1
    for (item in this) {
        if (predicate(item)) {
            last = iterator.next()
            return lastIndex
        }
        index++
    }
    return -1
}
```

...
```
/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
public inline fun <T> Iterable<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    var last: T? = null
    for (element in this) {
        if (predicate(element)) {
            last = element
        }
    }
    return last
}

/**
 * Returns a random element from this collection.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.random(): T {
    val iterator = iterator()
    if (!iterator.hasNext())
        throw NoSuchElementException("Collection is empty.")
    @Suppress("UNCHECKED_CAST")
    return iterator.next() as T
}

/**
 * Returns a random element from this collection using the specified source of randomness.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.random(random: Random): T {
    if (isEmpty())
        throw NoSuchElementException("Collection is empty.")
    return elementAt(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the collection is empty or has more than one element.
 */
@SinceKotlin("1.3")
public fun <T> Collection<T>.single(): T {
    when (this) {
        is List -> return this.single()
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext())
                throw NoSuchElementException("Collection is empty.")
            val single = iterator.next()
            if (iterator.hasNext())
                throw IllegalArgumentException("Collection has more than one element.")
            return single
        }
    }
}

/**
 * Returns a list containing all elements except first [n] elements.
 */
public fun <T> Iterable<T>.drop(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return toList()
    val list: ArrayList<T>
    if (this is Collection<*>) {
        val resultSize = size - n
        if (resultSize <= 0)
            return emptyList()
        if (resultSize == 1)
            return listOf(last())
        list = ArrayList<T>(resultSize)
        for (i in 0 until size - n)
            list.add(elementAt(i))
        return list
    }
    // handle List case
    return this.drop(n)
}
```

[1]
sortedWith(compareByDescending(selector))\n\n* \n* The sort is `stable`. It means that equal elements preserve their order relative to each other after sorting.\n* `public fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T>`\n\n* Returns a list of all elements sorted according to the specified `comparator`.\n* `The sort is `stable`. It means that equal elements preserve their order relative to each other after sorting.`\n* `public fun <T> (\n* if (this is Collection) \n* if (size <= 1) return this.toList() \n* Suppressed("UNCHECKED_CAST")\n* return \n* toTypedArray<Any?>() as Array<T>); apply { sortWith(comparator) }.asList() \n* return toMutableList().apply { sortWith(comparator) }\n* * Returns an array of Boolean containing all of the elements of this collection.\n* `public fun Collection:Boolean>.toBooleanArray(): BooleanArray {\n* var result = BooleanArray(size)\n* var index = 0x0 for (element in this)\n* result[index++] = element\n* return result\n* * Returns an array of Char containing all of the elements of this collection.\n* `public fun Collection:Char>.toCharArray(): CharArray {\n* var result = CharArray(size)\n* var index = 0x0 for (element in this)\n* result[index++] = element\n* return result\n* * Returns an array of Byte containing all of the elements of this collection.\n* `public fun Collection:Byte>.toByteArray(): ByteArray {\n* var result = ByteArray(size)\n* var index = 0x0 for (element in this)\n* result[index++] = element\n* return result\n* * Returns an array of Double containing all of the elements of this collection.\n* `public fun Collection:Double>.toDoubleArray(): DoubleArray {\n* var result = DoubleArray(size)\n* var index = 0x0 for (element in this)\n* result[index++] = element\n* return result\n* * Returns an array of Float containing all of the elements of this collection.\n* `public fun Collection:Float>.toFloatArray(): FloatArray {\n* var result = FloatArray(size)\n* var index = 0x0 for (element in this)\n* result[index++] = element\n* return result\n* * Returns an array of Int containing all of the elements of this collection.\n* `public fun Collection:Int>.toIntArray(): IntArray {\n* var result = IntArray(size)\n* var index = 0x0 for (element in this)\n* result[index++] = element\n* return result\n* * Returns an array of Long containing all of the elements of this collection.\n* `public fun Collection:Long>.toLongArray(): LongArray {\n* var result = LongArray(size)\n* var index = 0x0 for (element in this)\n* result[index++] = element\n* return result\n* * Returns an array of Short containing all of the elements of this collection.\n* `public fun Collection:Short>.toShortArray(): ShortArray {\n* var result = ShortArray(size)\n* var index = 0x0 for (element in this)\n* result[index++] = element\n* return result\n* * Returns a `Map` containing the key-value pairs provided by `transform` function applied to elements of the given collection.\n* `public fun Collection:Map<, V>.associate(transform: (T) -> Pair<, V>): Map<, V> {\n* var capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n* return associateTo(LinkedHashMap(<, V>(capacity), transform)\n* * Returns a `Map` containing the elements from the given collection indexed by the key returned from `keySelector` function applied to each element.\n* * If any two elements would have the same key the last one gets added to the map.\n* * The returned map preserves the entry iteration order of the original collection.\n* * `@sample samples.collections.Collections.Transformations.associate\n* * @sample samples.collections.Collections.Transformations.associateBy\n* * `public fun Iterable<, V>.associateBy(transform: (T) -> Pair<, V>): Map<, V> {\n* var capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n* return associateByTo(LinkedHashMap<, V>(capacity), transform)\n* * Returns a `Map` containing the values provided by `valueTransform` and indexed by `keySelector` functions applied to elements of the given collection.\n* * If any two elements would have the same key returned by `keySelector` the last one gets added to the map.\n* * The returned map preserves the entry iteration order of the original collection.\n* * `@sample samples.collections.Collections.Transformations.associateByWith\n* * `public fun Iterable<, V>.associateByWith(transform: (T) -> Pair<, V>): Map<, V> {\n* var capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n* return associateByWithTo(LinkedHashMap<, V>(capacity), transform)\n* * Returns a `Map` containing the elements from the given collection indexed by the key returned from `keySelector` function applied to each element.\n* * If any two elements would have the same key returned by `keySelector` the last one gets added to the map.\n* * The returned map preserves the entry iteration order of the original collection.\n* * `@sample samples.collections.Collections.Transformations.associateByWith`
yielded from results of \[transform\] function being invoked on each element of original collection.\n * \n * @sample samples.collections.Collections.Transformations.flatMap

Iterable\<T\>.flatMap\(\text{transform}: (T) -> Iterable\<R\>\): List\<R\> \{ in return flatMapTo(ArrayList\<R\>(10), transform)\} \n |num/*\n* Appends all elements yielded from results of \[transform\] function being invoked on each element of original collection, to the given \[destination\].\n * \n * @public inline fun \<T, R, C : MutableListCollection\<\<R\>>\> Iterable\<T\>.flatMapTo\(\text{destination}: C, transform: (T) -> Iterable\<R\>\): C \{ in for (element in this) \{ in val list = transform(element)\} in destination.addAll(list)\} \n |num return destination\n |num/*\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

Iterable\<T\>.groupBy\(\text{keySelector}: (T) -> K\): Map\<K, List\<T\>> \{ in return groupByTo(LinkedHashMap\<K, MutableList\<T\>>(10), keySelector)\} \n |num/*\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\n * 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

Iterable\<T\>.groupBy\(\text{keySelector}: (T) -> K, valueTransform: (T) -> V\): Map\<K, List\<V\>> \{ in return groupByTo(LinkedHashMap\<K, MutableList\<V\>>(10), keySelector, valueTransform)\} \n |num/*\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\n * 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

Iterable\<T\>.groupingBy\(\text{keySelector}: (T) -> K\): Grouping\<T, K\> \{ in return Grouping\<T, K\>(this)\} \n * \n * @sample samples.collections.Collections.Transformations.groupingByEachCount

Iterable\<T\>.map\(\text{transform}: (T) -> R\): List\<R\> \{ in return mapTo(ArrayList\<R\>(10), transform)\} \n |num/*\n* Returns a list containing the results of applying the given \[transform\] function\n * to each element in the original collection.\n * \n * @param \[transform\] function\n * and returns the result of the transform applied to the element.\n * \n * @sample samples.collections.Collections.Transformations.map

Iterable\<T\>.mapIndexed\(\text{transform}: (index: Int, T) -> R\): List\<R\> \{ in return mapIndexedTo(ArrayList\<R\>(10), transform)\} \n |num/*\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 * \n * @param \[transform\] function\n * and returns the result of the transform applied to the element.\n * \n * @sample samples.collections.Collections.Transformations.mapIndexed

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the result of the transform applied to the element.\n */
public inline fun <T, R : Any>
Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(), transform)\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    */
public inline fun <T, R : Any, C : MutableCollection<in R>>
Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {
    forEachIndexed {
        index, element -> transform(index, element)?.let { destination.add(it) } \n    return 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    * */
public inline fun <T, R : Any, C : MutableCollection<in R>>
Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
    var index = 0
    for (item in this) { \n        destination.add(transform(checkIndexOverflow(index++), item)) \n    return destination\n    * @param [transform] function that takes the index of an element and the element itself\n    * and applies only the non-null results to the given [collection]\n    */
public inline fun <T, R : Any>
Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)\n    */
public inline fun <T, R : Any, C : MutableCollection<in R>>
Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {
    forEach {
        element -> transform(element)?.let { destination.add(it) } \n    return destination \n    * */
public inline fun <T>
Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {
    return IndexingIterable { iterator() }\n    */
public fun <T> Iterable<T>.distinct(): List<T> {
    return this.toMutableSet().toList() \n    */
public inline fun <T, K>
Iterable<T>.distinctBy(selector: (T) -> K): List<T> {
    val set = HashSet<K>()
    val list = ArrayList<T>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    return list\n    */
public infix fun <T>
Iterable<T>.intersect(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()\n    val list = ArrayList<T>()
    for (e in this) {
        val key = selector(e)\n        if (set.add(key))
            list.add(e) \n    return list\n    */
public infix fun <T>
Iterable<T>.subtract(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()\n    set.retainAll(other) \n    */
public fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {
    return when (this) {
        is Collection<in T> -> LinkedHashSet(this) \n        else -> toCollection(LinkedHashSet()) \n    }\n    */
public fun <T> Iterable<T>.toMutableList(): MutableList<T> {
    return when (this) {
        is Collection<in T> -> LinkedHashSet(this) \n        else -> toCollection(LinkedHashSet()) \n    }\n    */
the end * in the order of the [other] collection. * * @n To get a set containing all elements that are contained in both collections use [intersect]. * * @n * "public infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet() set.addAll(other) return set.n}" * * @n * Returns 'true' if all elements match the given [predicate]. * * @n * @sample samples.collections.Collections.Aggregates.all * * @n * "public inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {\n * if (this is Collection && isnEmpty()) return true*n for (element in this) if (!predicate(element)) return false*n * Returns 'true' if at least one element matches the given [predicate]. * * @n * * @sample samples.collections.Collections.Aggregates.any * * @n * "public inline fun <T> Iterable<T>.any(): Boolean {\n * if (this is Collection) return !isEmpty()n return iterator().hasNext()n}" * * @n * Returns 'true' if at least one element matches the given [predicate]. * * @n * * @sample samples.collections.Collections.Aggregates.anyWithPredicate * * @n * "public inline fun <T> Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n * if (this is Collection)\n * return !isEmpty()n return iterator().hasNext()n" * * @n * Returns 'true' if all elements match the given [predicate]. * * @n * * @sample samples.collections.Collections.Aggregates.anyWithPredicate"}

/**
 * Returns the largest element or
 * iterator.next()
    if (max.isNaN()) return max
    while (iterator.hasNext()) {
        val e = iterator.next()
        if
Iterable<Double>.max(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max =
elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.1")
public fun
this) action(checkIndexOverflow(index++), item)

/**
 * Returns the largest element or `null` if there are no
* inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
    var index = 0
    for (item in
* function that takes the index of an element, the element itself
 * and current accumulator value, and calculates the next accumulator value.
 * Accumulates value starting with [initial] value and applying [operation] from right to left to current accumulator value and each element\n * in this collection.\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 * Accumulates value starting with [initial] value and applying [operation] from right to left to current accumulator value and each element\n * in this collection.\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 * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and\n * current accumulator value.\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and
```
`null` if there are no elements.

If any of elements is `NaN` returns `NaN`.

`*An@SinceKotlin("1.1.1")*/public fun Iterable<Float>.max(): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    if (max.isNaN()) return max\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (max < e) max = e\n    }\n    return max
}

/**
 * Performs the given function returning the smallest element among all elements.
 * 
 * @sample samples.collections.Collections.Aggregates.min
 */
public fun <T, R : Comparable<T>> Iterable<T>.minBy(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var min = iterator.next()\n    if (min.isNaN()) return min\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (min > e) min = e\n    }\n    return min
}

/**
 * Returns the first element having the smallest value of the given function or `null` if there
 * are no elements.
 */
@SinceKotlin("1.1")
public fun Iterable<Double>.min(): Double? {
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if (min.isNaN()) return min\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (min < e) min = e
    }\n    return min
}

/**
 * Returns the first element having the largest value of the given function or `null` if there
 * are no elements.
 */
public fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxElem = iterator.next()\n    if (!iterator.hasNext()) return maxElem\n    var max = iterator.next()\n    if (max.isNaN()) return max\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (max < e) max = e\n    }\n    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.1")
public fun Iterable<Float>.max(): Float? {
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    if (max.isNaN()) return max\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (max < e) max = e
    }\n    return max
}
samples.collections.Collections.Aggregates.reduce
@public inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw
    UnsupportedOperationException("Empty collection can't be reduced.")
    var accumulator: S = iterator.next() while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

@public inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")
    var index = 1
    var accumulator: S = iterator.next() while (iterator.hasNext()) {
        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
    }
    return accumulator
}

@public inline fun <S, T : S> Iterable<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
}

@public inline fun <T, R> Iterable<T>.scan(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 {
    var accumulator = init
    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 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.
 * @param [initial] initial value.
 * @return a list containing successive accumulation values.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <T, R> Iterable<T>.scanIndexed(initial: R, operation: (Int, T, R) -> 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 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.
 * @param [initial] initial value.
 * @return a list containing successive accumulation values.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Iterable<T>.scanReduce(operation: (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++, 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.
 * @param [initial] initial value.
 * @return a list containing successive accumulation values.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Iterable<T>.scanReduceIndexed(operation: (Int, T, S) -> 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++, accumulator, iterator.next())
            result.add(accumulator)
        }
        return result
    }
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the collection.
 */
public inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    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 collection.
 */
public inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Splits this collection into a list of non- null elements, throwing an [IllegalArgument] exception if there are any non-null elements.
 */
public fun <T : Any> Iterable<T?>.requireNoNulls(): Iterable<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgument("null elements found in $this.")
        }
    }
    return this as Iterable<T>
}

/**
 * Splits this collection into a list of non- null elements, throwing an [IllegalArgument] exception if there are any non-null elements.
 */
public fun <T : Any> List<T?>.requireNoNulls(): List<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgument("null elements found in $this.")
        }
    }
    return this as List<T>
}

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lists each not exceeding the given \([size]\). The last list in the resulting list may have less elements than the given \([size]\). The last list in the resulting list may have less elements than the given \([size]\). The last list in the resulting list may have less elements than the given \([size]\). The last list in the resulting list may have less elements than the given \([size]\).

* 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.

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* 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.
result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.
 */
public <T> ArrayList<T> plus(elements: Array<out T>): List<T> {
    val result = ArrayList<T>(this.size + elements.size)
    result.addAll(this)
    result.addAll(elements)
    return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.
 */
public <T> ArrayList<T> plus(elements: Iterable<T>): List<T> {
    if (elements is Collection) {
        val result = ArrayList<T>(this.size + elements.size)
        result.addAll(this)
        result.addAll(elements)
        return result
    } else {
        val result = ArrayList<T>(this.size + 10)
        result.addAll(this)
        result.addAll(elements)
        return result
    }
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.
 */
public <T> ArrayList<T> plus(elements: Sequence<T>): List<T> {
    val result = ArrayList<T>(this.size + step)
    result.addAll(this)
    result.addAll(elements)
    return result
}

/**
 * Returns a list of snapshots of the window of the given [size] sliding along this collection with the given [step], where each snapshot is a list. Several last lists may have less elements than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this collection.
 */
@SinceKotlin("1.2")
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
        val result = ArrayList<List<T>>(resultCapacity)
        var index = 0
        while (index in 0 until thisSize) {
            val windowSize = size.coerceAtMost(thisSize - index)
            if (windowSize < size && !partialWindows) break
            result.add(List(windowSize) { this[index + it] })
            index += step
        }
        return result
    } else {
        val result = ArrayList<List<T>>()
        windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {
            result.add(it)
        }
        return result
    }
}
```kotlin
this.size
val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
val result = ArrayList<R>(resultCapacity)
    var index = 0
    while (index + windowSize <= thisSize)
        window.move(index, index + windowSize)
        result.add(transform(window))
        index += step
    return result
}

/**
 * Returns a list of pairs built from the elements of `this` collection 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 collection.
 * @sample samples.collections.Operations.zip
 */
public fun <T, R> Iterable<T>.zip(other: Array<R>): List<Pair<T, R>> {
    val arraySize = other.size
    val list = ArrayList<Pair<T, R>>(minOf(collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in this) {
        if (i >= arraySize) break
        list.add(transform(element, other[i++]))
    }
    return list
}

/**
 * Returns a list of pairs of each two adjacent elements in this collection.
 * The returned list is empty if this collection contains less than two elements.
 * @sample samples.collections.Collections.Transformations.zipWithNext
 */
@SinceKotlin("1.2")
public fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {
    @sample samples.collections.Collections.Transformations.zipWithNext
    return zipWithNext(transform) { a, b -> a to b }
}
```

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 `"..."`).

```kotlin
@sample samples.collections.Collections.Transformations.joinToString
*/
public fun <T> Iterable<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()
}

/**
 * Returns this collection as an `Iterable`. 
 */
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.asIterable(): Iterable<T> {
    return this
}

/**
 * Creates a `Sequence` instance that wraps the original collection returning its elements when being iterated.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Iterable<Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfByte")
public 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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 * 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.collections

import kotlin.comparisons.naturalOrder
import kotlin.random.Random

* 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 "..."),

```
empty array otherwise. */

@kotlin.internal.InlineOnly
public actual inline fun <T> Array<out T>?.orEmpty():
    Array<out T> = this ?: emptyArray<out T>()

@kotlin.internal.InlineOnly
public actual inline fun <T, Collection<*>>
    Array<out T>?.toTypedArray(): Array<T> =
    copyToArrayImpl(collection)

@JsName("copyToArrayImpl")
internal actual fun <T, Collection<*>, Array<out T>>
    copyToArrayImpl(collection: Collection<*>, array: Array<out T>):
    Array<out T> =
    copyToArrayImpl(collection).unsafeCast<Array<out T>>()

@JsName("copyToArray")
@PublishedApi
internal fun <T> copyToArray(collection:
    Collection<*>, array: Array<out T>):
    Array<out T> =
    copyToArrayImpl(collection).unsafeCast<Array<out T>>()

/**
 * Returns an immutable list containing only the specified object [element].
 */
public fun <T> listOf(element: T): List<T> =
    ArrayListOf(element)

/**
 * Returns an immutable set containing only the specified object [element].
 */
public fun <T> setOf(element: T): Set<T> =
    HashSetOf(element)

/**
 * Returns an immutable map, mapping only the specified key to the specified value.
 */
public fun <K, V> mapOf(pair: Pair<K, V>):
    Map<K, V> =
    HashMapOf(pair)

/**
 * Fills the list with the provided [value].
 */
@SinceKotlin("1.2")
public actual inline fun <T> MutableList<T>.fill(value: T):
    Unit {
        for (index in 0..lastIndex) {
            this[index] = value
        }
    }

/**
 * Randomly shuffles elements in this list.
 */
@SinceKotlin("1.2")
public actual inline fun <T> MutableList<T>.shuffle(): Unit =
    shuffle(Random)

/**
 * Sorts elements in the list in-place according to their natural sort order.
 */
public actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {
    collectionsSort(this, naturalOrder())
}

private fun <T> collectionsSort(list: MutableList<T>,
    comparator: Comparator<in T>): Unit {
    if (list.size <= 1) return

    val array = copyToArray(list)
    sortArrayWith(array, comparator)

    for (i in 0 until array.size) {
        list[i] = array[i]
    }
}

internal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {
    return
    arrayOfNulls<Any>(size).unsafeCast<Array<T>>()
}

// no singleton map implementation in js, return map as is
@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <K, V> Map<K, V>.toSingletonMapOrSelf(): Map<K, V> =
    this

@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <K, V> Map<K, V>.toSingletonMap(): Map<K, V> =
    this

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this.toMutableMap().\n\n@Suppress("NOTHING_TO_INLINE")\n\ninternal actual fun <T> Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =
    if (isVarargs) this
    else this.copyOf()\n
@Suppress("NOTHING_TO_INLINE")\n\ninternal actual inline fun <T> Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =
    if (isVarargs)
        this
    else
        this.copyOf()\n
@PublishedApi\ninternal actual fun checkIndexOverflow(index: Int): Int {
    if (index < 0) {
        throwIndexOverflow()
    }
    return index\n}

@PublishedApi\ninternal actual fun checkCountOverflow(count: Int): Int {
    if (count < 0) {
        throwCountOverflow()
    }
    return count\n}

/**\n * JS map and set implementations do not make use of\n * capacities or load factors.\n * expectedSize\n * * Checks a collection builder function capacity argument.\n * In JS no validation is made in\n * Map/Set constructor yet.\n * \n * @sample samples.collections.collections\n */\n@PublishedApi\ninternal actual fun mapCapacity(expectedSize: Int) = expectedSize\n
/**\n * Checks a collection builder function capacity argument.\n * \n * @sample samples.collections.collections\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@PublishedApi\ninternal actual fun checkBuilderCapacity(capacity: Int) {
    require(capacity >= 0) { "capacity must be non-negative." }
}

@PublishedApi\ninternal actual fun checkIndexOverflow(index: Int): Int {
    if (index < 0) {
        throwIndexOverflow()
    }
    return index\n}

@PublishedApi\ninternal actual fun checkCountOverflow(count: Int): Int {
    if (count < 0) {
        throwCountOverflow()
    }
    return count\n}

/**\n * Returns the given iterator itself. This allows to use an instance of iterator in a 'for'\n * loop.\n * @sample samples.collections.iterators\n */\n@PublishedApi\ninternal actual fun <T> Iterator<T>.iterator(): Iterator<T> = this

/**\n * Returns an [Iterator] that wraps each element produced\n * by the original iterator in an [IndexedValue] containing the index of that element and the element itself.\n * @sample samples.collections.iterators\n */\npublic fun <T> Iterator<T>.withIndex(): Iterator<IndexedValue<T>> = IndexingIterator(this)

/**\n * Performs the given [operation] on each element of\n * this [Iterator].\n * @sample samples.collections.iterators\n */\npublic inline fun <T> Iterator<T>.forEach(operation: (T) -> Unit): Unit {
    for (element in this) operation(element)
}

internal class IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {
    private var index = 0
    final override fun hasNext(): Boolean = iterator.hasNext()
    final override fun next(): IndexedValue<T> = IndexedValue(checkIndexOverflow(index++), iterator.next())
}

@PublishedApi\ninternal actual fun checkBuilderCapacity(capacity: Int) {
    require(capacity >= 0) { "capacity must be non-negative." }
}

@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n
package kotlin.collections

/**\n * Returns the greater of two values.\n * If values are equal, returns the first one.\n * @sample samples.collections.collections\n */\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T): T

/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte): Byte

/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short): Short

/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int

/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long): Long

/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float): Float

/**\n * Returns the greater of three values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double, c: Double): Double

/**\n * Returns the greater of three values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte

/**\n * Returns the greater of three values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short, c: Short): Short

/**\n * Returns the greater of three values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int, c: Int): Int
Returns the greater of three values.

```kotlin
/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public
expect inline fun maxOf(a: Long, b: Long, c: Long): Long

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public
expect inline fun maxOf(a: Float, b: Float, c: Float): Float

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public
expect inline fun maxOf(a: Double, b: Double, c: Double): Double
```

Returns the greater of three values according to the order specified by the given [comparator].

```kotlin
T {\n    return maxOf(a, b, c, comparator), comparator}\n}
```

Returns the greater of two values according to the order specified by the given [comparator].

```kotlin
T \n    return minOf(a, maxOf(b, c, comparator), comparator)\n}
```

Returns the smaller of two values.

```kotlin
T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
```

Returns the smaller of two values.

```kotlin
T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
```

Returns the smaller of three values.

```kotlin
T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
```

Returns the smaller of three values.

```kotlin
T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
```

Returns the smaller of three values.

```kotlin
T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
```

Returns the smaller of three values.

```kotlin
T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
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Returns the smaller of three values.

```kotlin
T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
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Returns the smaller of three values.

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T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
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Returns the smaller of three values.

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T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
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```kotlin
T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
```

Returns the smaller of three values.

```kotlin
T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
```

Returns the smaller of three values.

```kotlin
T \n    return minOf(a, minOf(b, c, comparator), comparator)\n}
```
val result = ArrayList<Pair<K, V>>(size)
    do {
        result.add(iterator.next().toPair())
    } while (iterator.hasNext())
    return result
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.
 */
public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<Pair<K, V>>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform]
 * function to each entry in the original map.
 */
public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing only the non-null results of applying the given [transform]
 * function to each entry in the original map.
 */
public inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

/**
 * Performs the given [action] on each entry.
 */
@kotlin.internal.HidesMembers
public inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Returns the first entry yielding the largest value of the given function or ‘null’ if there are no entries.
 */
@kotlin.internal.InlineOnly
    return entries.maxBy(selector)
}

/**
 * Returns the first entry yielding the smallest value of the given function or ‘null’ if there are no entries.
 */
@kotlin.internal.InlineOnly
    return entries.minBy(selector)
}
if (predicate(element)) return element
    throw NoSuchElementException("Sequence contains no element matching the predicate.")
}

/**
 * Returns the first element, or `null` if the sequence is empty.
 *
 * The operation is _terminal_, *un*public fun
 */
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 no such element was found.
 *
 * The operation is _terminal_, *un*public fun
 */
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 such element.
 *
 * The operation is _terminal_, *un*public inline fun
 */
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_, *un*public inline fun
 */
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 no such element was found.
 *
 * The operation is _terminal_, *un*public inline fun
 */
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.
 * @throws NoSuchElementException if the sequence is empty.
 *
 * The operation is _terminal_, *un*public fun
 */
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], or throws exception if there is no or more than one matching element.
 *
 * The operation is _terminal_, *un*public inline fun
 */
public inline fun <T> Sequence<T>.lastOrNull(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.")
    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_, *un*public fun
 */
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_, *un*public inline fun
 */
public inline fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")
    return single
}
// Returns single element, or `null` if the sequence is empty or has more than one element.
// The operation is _terminal_ and _stateless_.
// The operation is _terminal_ and _stateless_.
// The operation is _intermediate_ and _stateless_.

/**
 * Returns single element, or `null` if the sequence is empty or has more than one element.
 * The operation is _terminal_ and _stateless_.
 */
public fun <T> Sequence<T>.singleOrNull(): T? {
    val iterator = iterator()
    if (!iterator.hasNext())
        return null
    val single = iterator.next()
    if (iterator.hasNext())
        return null
    return single
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found
 * or more than one element was found.
 * The operation is _terminal_ and _stateless_.
 */
public fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

/**
 * Returns all elements except first [n] elements.
 * The operation is _intermediate_ and _stateless_.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> Sequence<T>.drop(n: Int): Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> this
        this is DropTakeSequence -> this.drop(n)
        else -> DropSequence(this, n)
    }
}

/**
 * Returns all elements except first elements that satisfy the given [predicate].
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> Sequence<T>.dropWhile(predicate: (T) -> Boolean): Sequence<T> {
    return DropWhileSequence(this, predicate)
}

/**
 * Returns all elements matching the given [predicate].
 * @sample samples.collections.Collections.Transformations.filter
 */
public fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {
    return FilteringSequence(this, predicate)
}

/**
 * Returns all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Transformations.filterNot
 */
public fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {
    return FilteringSequence(this, { it !predicate(it) })
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * The operation is _terminal_.
 */
public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/**
 * Returns all elements that are instances of specified type parameter R.
 * The operation is _intermediate_ and _stateless_.
 */
public inline fun <reified R> Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {
    @Suppress("UNCHECKED_CAST")
    return filter { it is R } as Sequence<R>
}

/**
 * Appends all elements that are instances of specified type parameter R to the given [destination].
 * The operation is _intermediate_ and _stateless_.
 */
public fun <R, C : MutableCollection<in R>> Sequence<R>.filterIsInstanceTo(destination: C): C {
    for (element in this) if (element is R) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 * The operation is _terminal_.
 */
public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}
if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * The operation is _terminal_.*

public inline fun <T> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * The operation is _terminal_.
 */
public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * The operation is _intermediate_ and _stateless_.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.take
 */
public fun <T> Sequence<T>.take(n: Int): Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> emptySequence()
        this is DropTakeSequence -> this.take(n)
        else -> TakeSequence(this, n)
    }
}

/**
 * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Transformations.take
 */
public fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {
    return TakeWhileSequence(this, predicate)
}

/**
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {
    val sortedList = this.toMutableList()
    sortedList.sort()
    return sortedList.iterator()
}

/**
 * The operation is _intermediate_ and _stateful_.
 */
public inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {
    return sortedWith(compareBy(selector))
}

/**
 * The operation is _intermediate_ and _stateful_.
 */
public inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {
    return sortedWith(compareByDescending(selector))
}

/**
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {
    return sortedWith(reverseOrder())
}

/**
 * The operation is _intermediate_ and _stateful_.
 */
public fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {
    return object : Sequence<T> {
        override fun iterator(): Iterator<T> {
            val sortedList = this.toMutableList()
            sortedList.sortWith(comparator)
            return sortedList.iterator()
        }
    }
}

/**
 * The operation is _terminal_.
 */
public inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    val sortedList = this.toMutableList()
    sortedList.sortWith(transform)
    return sortedList.associate(transform)
}

/**
 * The operation is _terminal_.
 */
public inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    val sortedList = this.toMutableList()
    sortedList.sortWith(keySelector)
    return sortedList.associateBy(keySelector)
}

/**
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    val sortedList = this.toMutableList()
    sortedList.sortWith(transform)
    return sortedList.associate(transform)
}

/**
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    val sortedList = this.toMutableList()
    sortedList.sortWith(keySelector)
    return sortedList.associateBy(keySelector)
}
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```kotlin
/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence. If any two elements would have the same key returned by [keySelector] the last one gets added to the map. The returned map preserves the entry iteration order of the original sequence. The operation is _terminal_.
 */
public inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given sequence and value is the element itself. If any two elements would have the same key returned by [keySelector] the last one gets added to the map. The operation is _terminal_.
 */
public inline fun <T, K, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

/**
 * Returns a [Map] where keys are elements from the given sequence and values are provided by the [valueSelector] function applied to each element. If any two elements are equal, the last one overwrites the former value in the map. The operation is _terminal_.
 */
@SinceKotlin("1.3")
public inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {
    val result = LinkedHashMap<K, V>()
    return associateWithTo(result, valueSelector)
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given sequence, 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. The operation is _terminal_.
 */
@SinceKotlin("1.3")
public inline fun <K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Appends all elements to the given [destination] collection. The operation is _terminal_.
 */
public fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Returns a [HashSet] of all elements. The operation is _terminal_.
 */
public fun <T> Sequence<T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>())
}

/**
 * Returns a [List] containing all elements. The operation is _terminal_.
 */
public fun <T> Sequence<T>.toList(): List<T> {
    return this.toMutableList().optimizeReadOnlyList()
}

/**
 * Returns a [MutableList] filled with all elements of this sequence.
 */
public fun <T> Sequence<T>.toMutableList(): MutableList<T> {
    return toCollection(ArrayList<T>())
}
```

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preserves the element iteration order of the original sequence.

The operation is _terminal_.

The operation is _intermediate_ and _stateless_.

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the results of applying the given [transform] function\n* to each element and its index in the original sequence.\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* The operation is _intermediate_ and _stateless_.\n*/\npublic fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {
    return TransformingIndexedSequence(this, transform)\n}

/**
 * Returns a sequence containing only the non-null results of applying the given [transform] function\n* to each element and its index in the original sequence.\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* The operation is _intermediate_ and _stateless_.\n*/\npublic fun <T, R> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {
    return TransformingIndexedSequence(this, transform).filterNotNull()\n}

/**
 * Applies the given [transform] function\n* to each element and its index in the original sequence\n* and appends only the non-null results to the given\n* [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* The operation is _intermediate_ and _stateless_.\n*/\npublic fun <T, R> Sequence<T>.mapIndexedNotNullTo(destination: R, transform: (index: Int, T) -> R?): R {
    destination.add(transform(checkIndexOverflow(index), item))\n    return destination\n}

/**
 * Applies the given [transform] function\n* to each element in the original sequence
* and appends only the non-null results to the given [destination].\n* The operation is _intermediate_ and _stateless_.\n*/\npublic fun <T, R> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {
    return TransformingSequence(this, transform).filterNotNull()\n}

/**
 * Applies the given [transform] function\n* to each element in the original sequence
* and appends only the non-null results to the given [destination].\n* The operation is _intermediate_ and _stateless_.\n*/\npublic fun <T, R> Sequence<T>.mapNotNullTo(destination: R, transform: (T) -> R?): R {
    for (item in this)
        destination.add(transform(item))\n    return destination\n}

/**
 * Returns a sequence containing only distinct elements from the given 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_.\n*/\npublic fun <T> Sequence<T>.distinct(): Sequence<T> {
    return this.distinctBy { it }\n}

/**
 * Returns a mutable set containing all distinct elements from the given sequence.
* The returned set preserves the element iteration order of the original sequence.
* The operation is _terminal_.\n*/
public fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {
    val set = LinkedHashSet<T>()\n    for (item in this)
        set.add(item)\n    return set\n}
operation is _terminal_.

```kotlin
public inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {
    for (element in this)
        if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if sequence has at least one element.
 *
 * The operation is _terminal_.
 * @sample samples.collections.Aggregates.any
 */
public fun <T> Sequence<T>.any(): Boolean {
    return iterator().hasNext()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 *
 * The operation is _terminal_.
 * @sample samples.collections.Aggregates.anyWithPredicate
 */
public inline fun <T> Sequence<T>.any(predicate: (T) -> Boolean): Boolean {
    for (element in this)
        if (predicate(element)) return true
    return false
}

/**
 * Returns the number of elements in this sequence.
 *
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.count(): Int {
    var count = 0
    for (element in this)
        checkCountOverflow(++count)
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 *
 * The operation is _terminal_.
 * @sample samples.collections.Aggregates.countWithPredicate
 */
public inline fun <T> Sequence<T>.count(predicate: (T) -> Boolean): Int {
    var count = 0
    for (element in this)
        if (predicate(element)) checkCountOverflow(++count)
    return count
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator value and each element.
 *
 * The operation is _terminal_.
 */
public inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> 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 sequence.
 *
 * @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 {
    var index = 0
    var accumulator = initial
    for (item in this)
        accumulator = operation(checkIndexOverflow(index++), accumulator, item)
    return accumulator
}

/**
 * Performs the given [action] on each element.
 *
 * The operation is _terminal_.
 */
public inline fun <T> Sequence<T>.forEach(action: (T) -> Unit): Unit {
    for (element in this)
        action(element)
}

/**
 * Performs
 * the given [action] on each element, providing sequential index with the element.
 *
 * The operation is _terminal_.
 */
public inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(checkIndexOverflow(index++), item)
}

/**
 * Returns the largest element or `null` if there are no elements.
 *
 * If any of elements is `NaN` returns `NaN`.
 *
 * The operation is _terminal_.
 */
@SinceKotlin("1.1")
public fun Sequence<Double>.max(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    if (!iterator.hasNext()) return max
    var maxValue = max
    do {
        val e = iterator.next()
        if (e > maxValue) {
            max = e
            maxValue = e
        }
    } while (iterator.hasNext())
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 *
 * If any of elements is `NaN` returns `NaN`.
 *
 * The operation is _terminal_.
 */
@SinceKotlin("1.1")
public fun Sequence<Float>.max(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    if (!iterator.hasNext()) return max
    var maxValue = max
    do {
        val e = iterator.next()
        if (e > maxValue) {
            max = e
            maxValue = e
        }
    } while (iterator.hasNext())
    return max
}

/**
 * Returns the largest element or`null` if there are no elements.
 *
 * The operation is _terminal_.
 */
public fun <T : Comparable<T>> Sequence<T>.max(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    do {
        val e = iterator.next()
        if (e > max) max = e
    } while (iterator.hasNext())
    return max
}

/**
 * Performs the given [action] on each element yielding the largest value of the given function or `null` if there are no elements.
 *
 * The operation is _terminal_.
 */
public inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    do {
        val e = iterator.next()
        val v = selector(e)
        if (v > max) max = v
    } while (iterator.hasNext())
    return max
}
```
having the largest value according to the provided comparator or 'null' if there are no elements. * * * * The operation is _terminal_. * * * *\n
public fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {
        val e = iterator.next() if (comparator.compare(max, e) < 0) max = e\n    }\n    return max
}

/**
 * Returns the smallest element or 'null' if there are no elements. * * * * The operation is _terminal_. * * * *\n
public fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {
        val e = iterator.next() if (comparator.compare(min, e) > 0) min = e\n    }\n    return min
}

/**
 * Returns the first element yielding the smallest value of the given function or 'null' if there are no elements. * * * * The operation is _terminal_. * * * * \n
samples.collections.Collections.Aggregates.minBy\n
Sequence<T>.minBy(selector: (T) -> R): T? {
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    } while (iterator.hasNext())
    return minElem
}

/**
 * Returns the first element having the smallest value according to the provided comparator or 'null' if there are no elements. * * * * The operation is _terminal_. * * * *\n
public fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {
        val e = iterator.next() if (comparator.compare(min, e) < 0) min = e\n    }\n    return min
}

/**
 * Returns `true` if the sequence has no elements. * * * * The operation is _terminal_. * * * * \n
samples.collections.Collections.Aggregates.none\n
documented fun <T> Sequence<T>.none(): Boolean {
    return !iterator().hasNext()\n}

/**
 * Returns 'true' if no elements match the given predicate. * * * * The operation is _terminal_. * * * * \n
public inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Accumulates value starting with the first element and applying \n * to current accumulator value and each element. \n * * * * The operation is _terminal_. * * * *\n
samples.collections.Collections.Aggregates.reduce\n
documented fun <S, T> Sequence<T>.reduce(operation: (acc: S, T) -> S): S {
    val iterator = this.iterator()\n    if (!iterator.hasNext()) throw UnsupportedOperation(\"Empty sequence can't be reduced.\")\n    var accumulator = operation(\"Empty sequence can't be reduced.\")\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n        if (accumulator == null) throw UnsupportedOperation(\"Empty sequence can't be reduced.\")\n    }\n    return accumulator
}

/**
 * Accumulates value starting with the first element and applying \n * to current accumulator value and each element with its index in the original sequence. * * * * The operation is _terminal_. * * * *\n
samples.collections.Collections.Aggregates.reduceIndexed\n
documented fun <S, T> Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    val iterator = this.iterator()\n    if (!iterator.hasNext()) throw UnsupportedOperation(\"Empty sequence can't be reduced.\")\n    var index = 0
    while (iterator.hasNext()) {\n        index++
        accumulator = operation(index, accumulator, iterator.next())\n        if (accumulator == null) throw UnsupportedOperation(\"Empty sequence can't be reduced.\")\n    }\n    return accumulator
}
```kotlin
    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
 * and each element. Returns null if the sequence is empty.
 * @param *operation* The operation is _terminal_.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
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.
 * @param *operation* Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting sequence.
 * @param *initial* 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.
 * @param *operation* function that takes current accumulator value and an element, and calculates the next accumulator value.
 * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Aggregates.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T, R> Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var accumulator = initial
        for (element in this@scan) {
            accumulator = operation(accumulator, element)
            yield(accumulator)
        }
    }
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in the original sequence and current accumulator value that starts with [initial] value.
 * @param *operation* Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting sequence.
 * @param *initial* 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.
 * @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 _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Aggregates.scanIndexed
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T, R> Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var index = 0
        var accumulator = initial
        for (element in this@scanIndexed) {
            index++
            accumulator = operation(checkIndexOverflow(index++), accumulator, element)
            yield(accumulator)
        }
    }
}

/**
 * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right
 * to each element, its index in the original sequence and current accumulator value that starts with the first element of this
 * sequence.
 * @param *operation* Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting sequence.
 * @param *operation* function that takes current accumulator value and the element, and calculates the next accumulator value.
 * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <S, T : S> Sequence<T>.scanReduce(operation: (acc: S, T) -> S): Sequence<S> {
    return sequence {
        val iterator = iterator()
        if (iterator.hasNext()) {
            var accumulator: S = iterator.next()
            yield(accumulator)
            while (iterator.hasNext()) {
                accumulator = operation(accumulator, iterator.next())
                yield(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 the first element of this sequence.
 * @param *operation* Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting sequence.
 * @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 _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <T, R> Sequence<T>.scanReduceIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var index = 0
        var accumulator = initial
        for (element in this@scanReduceIndexed) {
            index++
            accumulator = operation(checkIndexOverflow(index++), accumulator, element)
            yield(accumulator)
        }
    }
}
```

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <S, T : S>
Sequence<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {
val iterator = iterator()
if (iterator.hasNext()) {
    var accumulator: S = iterator.next()
    yield(accumulator)
    var index = 1
    while (iterator.hasNext()) {
        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
        yield(accumulator)
        index += 1
    }
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the
 * sequence.\n * The operation is _terminal_.\n */
public inline fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 0
    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
 * sequence.\n * The operation is _terminal_.\n */
public inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0.0
    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.\n * The operation is _intermediate_ and _stateless_.\n */
public fun <T : Any> Sequence<T?>.requireNoNulls(): 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].\n * The last list in the resulting sequence may have less elements than the given [size].\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 sequence.\n * The operation is _intermediate_ and _stateful_.\n */
@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.\n * 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 less elements than the given [size].\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 sequence.\n * The operation is _intermediate_ and _stateful_.\n */
@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].\n * The operation is _intermediate_ and _stateless_.\n */
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.\n * Note that the source sequence and the array being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\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 * The operation is _intermediate_ and _stateful_.\n */
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> {
            var other = elements.toHashSet()
            return this@minus.filterNot { it in other }.iterator()
        }
    }
}

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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 the first list contains elements for which [predicate] yielded `true`, *and*
 * while the second list contains elements for which [predicate] yielded `false`.
 * The operation is _terminal_ and _stateless_.
 * The operation is _intermediate_ and _stateless_.
 */
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 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 less 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
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.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. Returns a sequence of results of applying the given [transform] function to each element of this sequence. The operation is _intermediate_ and _stateless_.

```kotlin
@SinceKotlin("1.2")
public fun <T> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {
    return sequence result@{
        val iterator = iterator()
        if (!iterator.hasNext()) return@result
        var current = iterator.next()
        while (iterator.hasNext()) {
            val next = iterator.next()
            yield(transform(current, next))
            current = next
        }
    }
}
```

Returns a sequence containing the results of applying the given [transform] function to each pair of two adjacent elements in this sequence. The operation is _intermediate_ and _stateless_.

```kotlin
@SinceKotlin("1.2")
public 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 {
    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)
            if (limit >= 0 && count > limit) buffer.append(truncated)
        } else break
    }
}
```
**Returns** 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 "..."").

The operation is _terminal_ *@sample

return buffer
}

/**
 * Creates a
 * [sequence]
 * that wraps the original sequence returning its elements when being iterated.
 * *
 * @sample
 * samples.collections.Collections.Transformations.joinToString
 */
public fun <T>

Sequence<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated).toString()
}

/**
 * Creates a
 * [sequence]
 * instance that wraps the original sequence returning its elements when being iterated.
 */
public fun <T>

Sequence<T>.asIterable(): Iterable<T> {
    return Iterable { this.iterator() }
}

/**
 * Returns this sequence as
 * a
 * [sequence].
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.asSequence(): Sequence<T> {
    return this
}

/**
 * Returns an average value of elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Sequence<Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun Sequence<Short>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Sequence<Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Sequence<Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Sequence<Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Sequence<Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Sequence<Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Sequence<Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Sequence<Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Sequence<Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Sequence<Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 *
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Sequence<Double>.sum(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}
Sequence<Double>.sum(): Double { 
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/*
 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
 * 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("SetsKt")
unpackage 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 a set containing all elements of the original set except the given [element].
 * The returned set preserves the element iteration order of the original set.
 */
public operator fun <T> Set<T>.minus(element: T): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size))
    var removed = false
    return this.filterTo(result) { if (!removed && & it == element) { removed = true; false } else true }.*
    * Returns a set containing all elements of the original set except the elements contained in the given [elements] array.
    * The returned set preserves the element iteration order of the original set.
    * 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.
 */
public operator fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.
 * The returned set preserves the element iteration order of the original set.
 * 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.
 */
public operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set except the given [element].
 * The returned set preserves the element iteration order of the original set.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Set<T>.minusElement(element: T): Set<T> {
    return minus(element)
}

/**
 * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.
 * The returned set preserves the element iteration order of the original set.
 */
public operator fun <T> Set<T>.plus(element: T): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size + 1))
    result.addAll(this)
    result.add(element)
    return result
}

/**
 * Returns a set containing all elements of the original set and the given [elements] array,
 * which aren't already in this set.
 * The returned set preserves the element iteration order of the original set.
 */
public operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))
    result.addAll(this)
    result.addAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set and the given [elements] collection,
 * which aren't already in this set.
 * The returned set preserves the element iteration order of the original set.
 */
public operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull() ?: this.size * 2))
    result.addAll(this)
    result.addAll(elements)
    return result
}
result.addAll(this)
result.addAll(elements)
return result

/**
 * Returns a set containing all elements of
 * the original set and then the given [element] if it isn't already in this set.
 * The returned set preserves the element iteration order of the original set.
 */
*@

Set<T>.plusElement(element: T): Set<T>
result.addAll(this)
result.addAll(elements)
return result

/**
 * Returns a set containing all elements of
 * the original set and then the given [element] if it isn't already in this set.
 * The returned set preserves the element iteration order of the original set.
 */
*@

public fun <T>

result.addAll(this)
result.addAll(elements)
return result

/**
 * Returns a set containing all elements of
 * the original set and then the given [element] if it isn't already in this set.
 * The returned set preserves the element iteration order of the original set.
 */
*@

Set<T>.plusElement(element: T): Set<T>
result.addAll(this)
result.addAll(elements)
return result

/**
 * Returns a set containing all elements of
 * the original set and then the given [element] if it isn't already in this set.
 * The returned set preserves the element iteration order of the original set.
 */
*@

Set<T>.plusElement(element: T): Set<T>
result.addAll(this)
result.addAll(elements)
return result
/**
 * Returns the last character, or `null` if the char sequence is empty.
 */
public inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Char sequence contains no character matching the predicate.")
}

/**
 * Returns the last character matching the given [predicate], or `null` if no such character was found.
 */
public inline fun CharSequence.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 character from this char sequence.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun CharSequence.random(): Char {
    return random(Random)
}

/**
 * Returns a random character from this char sequence using the specified source of randomness,
 * or `null` if this char sequence is empty.
 */
@SinceKotlin("1.3")
public fun CharSequence.random(random: Random): Char {
    if (isEmpty())
        throw NoSuchElementException("Char sequence is empty.")
    return get(random.nextInt(length))
}

/**
 * Returns a single character, or throws an exception if the char sequence has not more than one character.
 */
public fun CharSequence.single(): Char {
    return when (length) {
        0 -> throw NoSuchElementException("Char sequence is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Char sequence has more than one element.")
    }
}

/**
 * Returns a single character matching the given [predicate], or throws exception if there is no or more than one matching character.
 */
public inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Char sequence contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) return null
    @Suppress("UNCHECKED_CAST")
    return single as Char
}

/**
 * Returns a subsequence of this char sequence with the first [n] characters removed.
 */
public fun CharSequence.drop(n: Int): CharSequence {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return subSequence(n.coerceAtMost(length), length)
}

/**
 * Returns a string with the first [n] characters removed.
 */
public fun String.drop(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return substring(n.coerceAtMost(length))
}

/**
 * Returns a subsequence of this char sequence with the last [n] characters removed.
 */
public fun CharSequence.dropLast(n: Int): CharSequence {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return take((length - n).coerceAtLeast(0))
}

/**
 * Returns a string with the last [n] characters removed.
 */
public fun String.dropLast(n: Int): String {
    require(n >= 0) { "Requested character count $n is less than zero." }
    return take((length - n).coerceAtLeast(0))
}
IllegalArgumentException if \( n \) is negative.\n
```java
public fun String.dropLast(n: Int): String {
    require(n >= 0) { "Requested character count \( n \) is less than zero." }
    return take((length - n).coerceAtLeast(0))
}
```

Returns a string containing all characters except last characters that satisfy the given \([\text{predicate}]\).\n
```java
public inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {
    for (index in lastIndexOf(0))
        if (!predicate(this[index]))
            return substring(0, index + 1)
    return ""
}
```

Returns a string containing all characters except first characters that satisfy the given \([\text{predicate}]\).\n
```java
public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    for (index in this.indices)
        if (!predicate(this[index]))
            return substring(index)
    return ""
}
```

`CharSequence`:

```java
public inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {
    return filterIndexedTo(StringBuilder(), predicate)
}
```

```java
public inline fun CharSequence.filterNotIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    for (index in this.indices)
        if (predicate(index, element))
            destination.append(element)
    return destination
}
```

`String`:

```java
public inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {
    return filterIndexedTo(StringBuilder(), predicate).toString()
}
```

```java
public inline fun String.slice(indices: IntRange): String {
    if (indices.isEmpty()) return ""
    return subSequence(indices)
}
```

Appends all characters matching the given \([\text{predicate}]\) to the given \([\text{destination}]\).\n
```java
public inline fun 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 \([\text{predicate}]\) to the given \([\text{destination}]\).\n
```java
public inline fun String.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 \([\text{indices}]\).\n
```java
public fun CharSequence.slice(indices: IntRange): CharSequence {
    return subSequence(indices)
}
```

Appends all characters matching the given \([\text{predicate}]\) to the given \([\text{destination}]\).\n
```java
public inline fun CharSequence.filterTo(StringBuilder(), predicate): StringBuilder {
    for (index in 0 until length) {
        val element = get(index)
        if (predicate(element))
            destination.append(element)
    }
    return destination
}
```

Appends all characters matching the given \([\text{predicate}]\) to the given \([\text{destination}]\).\n
```java
public inline fun StringBuilder().toString(): String {
    return subSequence(0, length)
}
```

Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given \([\text{predicate}]\).\n
```java
public fun subSequence(index: Int, length: Int): CharSequence {
    return subSequence(index, index + length)
}
```

Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given \([\text{predicate}]\).\n
```java
public fun subSequence(lastIndex: Int, index: Int): CharSequence {
    return subSequence(lastIndex, index)
}
```

Returns a string containing all characters except last characters that satisfy the given \([\text{predicate}]\).\n
```java
public fun subSequence(index: Int, length: Int): String {
    return subSequence(index, index + length)
}
```

Returns a string containing all characters except first characters that satisfy the given \([\text{predicate}]\).\n
```java
public fun subSequence(lastIndex: Int, index: Int): String {
    return subSequence(lastIndex, index)
}
```

Returns a string containing all characters except last characters that satisfy the given \([\text{predicate}]\).\n
```java
public fun subSequence(index: Int, length: Int): String {
    return subSequence(index, index + length)
}
```

Returns a string containing all characters except first characters that satisfy the given \([\text{predicate}]\).\n
```java
public fun subSequence(lastIndex: Int, index: Int): String {
    return subSequence(lastIndex, index)
}
```
of the original string at the specified range of [indices].

*/
public fun String.slice(indices: IntRange): String {
    if (indices.isEmpty()) return ""
    return substring(indices)
}

/**
 * Returns a char sequence containing characters of the original char sequence at specified [indices].
 */
public fun CharSequence.slice(indices: Iterable<Int>): CharSequence {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return ""
    val result = StringBuilder(size)
    for (i in indices) { result.append(get(i)) }
    return result
}

/**
 * Returns a string containing characters of the original string at specified [indices].
 */
@kotlin.internal.InlineOnly
public inline fun String.slice(indices: Iterable<Int>): String {
    return (this as CharSequence).slice(indices).toString()
}

/**
 * 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.
 */
public fun CharSequence.take(n: Int): CharSequence {
    val length = length
    return subSequence(0, n.coerceAtMost(length))
}

/**
 * Returns a string containing the first [n] characters from this string, or the entire string if this string is shorter.
 */
public fun String.take(n: Int): String {
    return substring(0, n.coerceAtMost(length))
}

/**
 * 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.
 */
public fun CharSequence.takeLast(n: Int): CharSequence {
    val length = length
    return subSequence(length - n.coerceAtMost(length), length)
}

/**
 * Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.
 */
public fun String.takeLast(n: Int): String {
    return substring(length - n.coerceAtMost(length))
}

/**
 * Returns a subsequence of this char sequence containing last characters that satisfy the given [predicate].
 */
public inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return subSequence(index + 1, length)
        }
    }
    return subSequence(0, length)
}

/**
 * Returns a string containing the last characters that satisfy the given [predicate].
 */
public inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {
    for (index in lastIndex downTo 0) {
        if (!predicate(get(index))) {
            return substring(index + 1)
        }
    }
    return this
}

/**
 * Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].
 */
public inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in 0 until length) {
        if (!predicate(get(index))) {
            return subSequence(0, index)
        }
    }
    return subSequence(0, length)
}

/**
 * Returns a string containing the first characters that satisfy the given [predicate].
 */
public inline fun String.takeWhile(predicate: (Char) -> Boolean): String {
    for (index in 0 until length) {
        if (!predicate(get(index))) {
            return substring(0, index)
        }
    }
    return this
}

/**
 * Returns a char sequence with characters in reversed order.
 */
public fun String.reverse(): String {
    return substring(0, length).reverse() +"
}

/**
 * Returns a string with characters in reversed order.
 */
@kotlin.internal.InlineOnly
public inline fun String.reverse(): String {
    return (this as CharSequence).reverse().toString()
}

/**
 * Returns a [Map] containing key-value pairs provided by [transform] function applied to characters of the given char sequence.
 */
public fun String.toMap(transform: (Char) -> Pair<K, V>): Map<K, V> {
    var mapCapacity = mapCapacity(length)
    return associateTo(LinkedHashMap<K, V>(mapCapacity), transform)
}

/*
[MutableList] filled with all characters of this char sequence.

MutableList<Char> { return toCollection(ArrayList<Char>(length)) } Returns a [Set] of all
characters. The returned set preserves the element iteration order of the original char sequence.

MutableList<Char> { return when (length) { 0 -> emptySet() 1 -> setOf(this[0]) } else -> toCollection(LinkedHashSet<Char>(mapCapacity(length))) } Returns a single list of all
elements yielded from results of [transform] function being invoked on each character of original char sequence.

CharSequence.toMutableList(): MutableList<Char> {
    return toCollection(ArrayList<Char>(length))
}

CharSequence.toSet(): Set<Char> {
    return when (length) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Char>(mapCapacity(length)))
    }
}

CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

CharSequence.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {
    return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)
}

CharSequence.groupByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Char>() }
        list.add(element)
    }
    return destination
}

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)
    }
}

CharSequence.map(transform: (Char) -> R): List<R> {
    return mapTo(ArrayList<R>(length), transform)
}

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<Char>() }
        list.add(element)
    }
    return destination
}

CharSequence.groupingByEachCount(*@sample samples.collections.Collections.Transformations.groupBy*<K,V>

CharSequence.groupByEachCount*<K,V>*@sample samples.collections.Collections.Transformations.groupBy*<K,V>
@param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */
public inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(length), transform)\n}

/**
 * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n */
public inline fun <R> CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}

/**
 * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends only the non-null results to the given [destination].\n */
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\n}

/**
 * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends only the non-null results to the given [destination].\n */
public inline fun <R : Any> CharSequence.mapIndexedTo(destination: List<R>, transform: (index: Int, Char) -> R): List<R> {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination\n}

/**
 * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character in the original char sequence.\n */
public inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)\n}

/**
 * Applies the given [transform] function to each character in the original char sequence\n * and appends only the non-null results to the given [destination].\n */
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\n}

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\n}

public fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns `true` if all characters match the given [predicate].\n */
public inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true\n}

/**
 * Returns `true` if char sequence has at least one character.\n */
public fun CharSequence.any(): Boolean {
    return !isEmpty()\n}

/**
 * Returns `true` if at least one character matches the given [predicate].\n */
public inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false\n}

/**
 * Returns the length of this char sequence.\n */
@kotlin.internal.InlineOnly
public inline fun CharSequence.count(): Int {
    return length\n}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each character.\n */
public inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator\n}

/**
 * Returns a lazy [Iterable] that wraps each character of the original char sequence\n * into an [IndexedValue] containing the index of that character and the character itself.\n */
public fun CharSequence.asList(): List<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}
index of a character, current accumulator value\n* and the character itself, and calculates the next accumulator
value.\n*

public inline fun <R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

/**
 * Performs the given [action] on each character.
 */
public inline fun <R> CharSequence.forEach(action: (Char) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each character, providing sequential index with the character.
 */
public inline fun <R> CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

/**
 * Returns the largest character or `null` if there are no characters.
 */
public fun CharSequence.max(): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the smallest character or `null` if there are no characters.
 */
public fun CharSequence.min(): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Performs the given [action] on each character and returns the char sequence itself
 */
public CharSequence.forEachWith(action: (Char) -> Unit): CharSequence {
    ...
afterwards.

```kotlin
afterwards.

@SinceKotlin("1.1")
public inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S {
    return apply {
        for (element in this) action(element)
    }
}

@SinceKotlin("1.1")
public inline fun <S : CharSequence> S.onEachIndexed(action: (Int, Char) -> Unit): S {
    return apply {
        for (index in 0..lastIndex) action(index, this[index])
    }
}

@SinceKotlin("1.1")
public inline fun <S : CharSequence> S.onEachIndexed(operation: (Int, Char, Char) -> Unit): S {
    return apply {
        for (index in 0..lastIndex) operation(index, this[index], this[index + 1])
    }
}

@SinceKotlin("1.1")
@ExperimentalStdlibApi
public inline fun <R> CharSequence.reduce(initial: R, operation: (acc: R, Char) -> R): List<R> {
    return this.map { entry -> entry }
}
```

> Contains additional comments and examples related to the `onEach`, `onEachIndexed`, and `reduce` functions, showing usage and example code snippets.
accumulator = operation(accumulator, element)
result.add(accumulator)
return result

accumulator = operation(accumulator, element)
result.add(accumulator)
return result

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right on each character, its index in the original char sequence 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 a character, current accumulator value and the character itself, and calculates the next accumulator value.
 * @return a list containing successive accumulation values generated by applying [operation] from left to right on each character and current accumulator value that starts with the first character of this char sequence.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun CharSequence.scanIndexed(initial: Char, operation: (Int, Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = initial
    val result = ArrayList<Char>(length + 1).apply { add(accumulator) }
    for (index in 1 until length) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

/**
 * Splits this char sequence into a list of strings each not exceeding the given [size].
 * The last string in the resulting list may have less characters than the given [size].
 * @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.
 */
@SinceKotlin("1.2")
public fun CharSequence.chunked(size: Int): List<String> {
    return windowed(size, size, partialWindows = true)
}
public <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {
    return windowed(size, size, partialWindows = true, transform = transform).map { it.toString() }
}

/**
 * Splits this char sequence into a sequence of strings each not exceeding the given [size].
 * The last string in the resulting sequence may have less characters than the given [size].
 * @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.
 * @sample samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun CharSequence.chunkedSequence(size: Int): Sequence<String> {
    return chunkedSequence(size) { it.toString() }
}

/**
 * Splits this char sequence into several char sequences each not exceeding the given [size] and applies the given [transform] function to each.
 * @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.
 * @param transform the function to apply to each char sequence.
 * @sample samples.text.Strings.chunkedTransformToSequence
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.chunkedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): List<R> {
    checkWindowSizeStep(size, step)
    val thisSize = this.length
    val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
    val result =...

* /n
@SinceKotlin("1.2")
public fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {
    return windowed(size, size, partialWindows = true, transform = transform).map { it.toString() }
}

/**
 * Splits this char sequence into a sequence of strings each not exceeding the given [size].
 * The last string in the resulting sequence may have less characters than the given [size].
 * @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.
 * @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.
 * @param sample samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun CharSequence.chunkedSequence(size: Int): Sequence<String> {
    return chunkedSequence(size) { it.toString() }
}

/**
 * Splits this char sequence into several char sequences each not exceeding the given [size] and applies the given [transform] function to each.
 * @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.
 * @param transform the function to apply to each char sequence.
 * @sample samples.text.Strings.chunkedTransformToSequence
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.chunkedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): List<R> {
    checkWindowSizeStep(size, step)
    val thisSize = this.length
    val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
    val result =...
ArrayList<R>(resultCapacity)
    var index = 0
    while (index in 0 until thisSize) {
        val end = index + size
        val coercedEnd = if (end < 0 || end > thisSize) { if (partialWindows) thisSize else break } else end
        result.add(transform(subSequence(index, coercedEnd)))
        index += step
    }
    return result
}

/**
 * Returns a sequence of snapshots of the window of the given [size]
 * sliding along this char sequence with the given [step], where each
 * snapshot is a string.
 * Several last strings may have less 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 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 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
 * 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 less 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 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 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.
 * @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 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.zipWithNext
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.zipWithNextToFindDeltas(transform: (a: Char, b: Char) -> R): List<R> {
    return zipWithNext(transform) { a, b -> a to b }
}

/**
 * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.
 * @sample samples.collections.Collections.Transformations.zipWithNext
 */
@SinceKotlin("1.2")
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
 * when being iterated.
 * @sample samples.collections.Sequences.Transformations.zipWithNext
 */
@SinceKotlin("1.2")
public fun CharSequence.zipWithTransform(other: CharSequence): String {
    val otherLength = other.length
    val resultLength = minOf(this.length, otherLength)
    val result = ArrayList<String>(resultLength)
    for (i in 0 until resultLength) {
        result.add(transform(this[i], other[i]))
    }
    return result.toString()
}

/**
 * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.
 * @sample samples.collections.Collections.Transformations.zipWithNext
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {
    return zipWithNext(transform) { a, b -> a to b }
}

/**
 * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.
 * @sample samples.collections.Collections.Transformations.zipWithNext
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.zipWithNextToFindDeltas(transform: (a: Char, b: Char) -> R): List<R> {
    return zipWithNext(transform) { a, b -> a to b }
}

/**
 * Creates a [Sequence] instance that wraps the original char sequence
 * when being iterated.
 * @sample samples.collections.Sequences.Transformations.zipWithNext
 */
@SinceKotlin("1.2")
public fun CharSequence.zipWithTransform(other: CharSequence): String {
    val otherLength = other.length
    val resultLength = minOf(this.length, otherLength)
    val result = ArrayList<String>(resultLength)
    for (i in 0 until resultLength) {
        result.add(transform(this[i], other[i]))
    }
    return result.toString()
}
returning its characters when being iterated.  

```kotlin
*\n\npublic fun CharSequence.asSequence(): Sequence<Char> { 
    if (this is String & & isNotEmpty()) return emptySequence() 
    return Sequence { this.iterator() } 
}
```

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```kotlin
//
// 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.
//
/**
 * Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate] removed. 
 */

public fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence { 
    var startFound = false 
    var endFound = false 
    var start = 0 
    var end = length - 1 
    var match = predicate(this[start]) 
    if (!startFound) { 
        if (!match) 
            start++ 
        startFound = true 
    } else { 
        endFound = true 
        while (endFound) { 
            if (!predicate(this[end])) 
                end-- 
            else 
                break 
        } 
    } 
    return subSequence(start, end + 1) 
}
```

```kotlin

/*
 * Returns a string having leading and trailing characters matching the [predicate] removed. 
 */

public inline fun String.trim(predicate: (Char) -> Boolean): String = 
    (this as CharSequence).trim(predicate).toString() 
```

```kotlin

/**
 * Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed. 
 */

public inline fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence { 
    for (index in this.indices) { 
        if (!predicate(this[index])) 
            return subSequence(index, length) 
    } 
    return "" 
}
```

```kotlin

/**
 * Returns a string having leading characters matching the [predicate] removed. 
 */

public inline fun String.trimStart(predicate: (Char) -> Boolean): String = 
    (this as CharSequence).trimStart(predicate).toString() 
```

```kotlin

/**
 * Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed. 
 */

public inline fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence { 
    for (index in this.indices.reversed()) { 
        if (!predicate(this[index])) 
            return subSequence(0, index + 1) 
    } 
    return "" 
}
```

```kotlin

/**
 * Returns a string having trailing characters matching the [predicate] removed. 
 */

public inline fun String.trimEnd(predicate: (Char) -> Boolean): String = 
    (this as CharSequence).trimEnd(predicate).toString() 
```

```kotlin

/**
 * Returns a sub sequence of this char sequence having leading and trailing whitespace removed. 
 */

public fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace) 
```

```kotlin

/**
 * Returns a string having leading and trailing whitespace removed. 
 */

public inline fun String.trim(): String = 
    (this as CharSequence).trim().toString() 
```

```kotlin

/**
 * Returns a string having leading whitespace removed. 
 */

public fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace) 
```

```kotlin

/**
 * Returns a string having trailing whitespace removed. 
 */

public inline fun String.trimStart(): String = 
    (this as CharSequence).trimStart().toString() 
```

```kotlin

/**
 * Returns a string having trailing whitespace removed. 
 */

public fun CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace) 
```

```kotlin

/**
 * Returns a string having trailing whitespace removed. 
 */

public inline fun String.trimEnd(): String = 
    (this as CharSequence).trimEnd().toString() 
```

```kotlin

/**
 * Returns a string having leading whitespace removed. 
 */

public fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace) 
```

```kotlin

/**
 * Returns a string having leading whitespace removed. 
 */

public inline fun String.trim(): String = 
    (this as CharSequence).trim().toString() 
```

```kotlin

/**
 * Returns a string having trailing whitespace removed. 
 */

public fun CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace) 
```

```kotlin

/**
 * Returns a string having trailing whitespace removed. 
 */

public inline fun String.trimEnd(): String = 
    (this as CharSequence).trimEnd().toString() 
```

```kotlin

/**
 * Returns a string having trailing whitespace removed. 
 */

public fun CharSequence.trim(vararg chars: Char): CharSequence = 
    trim{ it in chars } 
```

```kotlin

/**
 * Returns a string having trailing whitespace removed. 
 */

public fun String.trim(vararg chars: Char): String = 
    trim{ it in chars } 
```

```kotlin

/**
 * Returns a string having leading characters from the [chars] array removed. 
 */

public fun CharSequence.trimStart(vararg chars: Char): CharSequence = 
    trimStart{ it in chars } 
```

```kotlin

/**
 * Returns a string having leading characters from the [chars] array removed. 
 */

public fun String.trimStart(vararg chars: Char): String = 
    trimStart{ it in chars } 
```

```kotlin

/**
 * Returns a string having trailing characters from the [chars] array removed. 
 */

public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = 
    trimEnd{ it in chars } 
```

```kotlin

/**
 * Returns a string having trailing characters from the [chars] array removed. 
 */

public fun String.trimEnd(vararg chars: Char): String = 
    trimEnd{ it in chars } 
```
Space is used by default.

```kotlin
@kotlin.internal.InlineOnly
public inline fun CharSequence?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }

    return this == null || this.length == 0
}

/**
 * Returns `true` if this char sequence is empty (contains no characters).
 *
 * @sample samples.text.Strings.stringIsEmpty
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.isEmpty(): Boolean = length == 0

/**
 * Returns `true` if this char sequence is not empty.
 *
 * @sample samples.text.Strings.stringIsNotEmpty
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.isNotEmpty(): Boolean = length > 0

/**
 * Returns `true` if this char sequence is not empty or consists solely of whitespace characters.
 *
 * @sample samples.text.Strings.stringIsNullOrBlank
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence?.isNullOrBlank(): Boolean {
    contract {
        returns(false) implies (this@isNullOrBlank != null)
    }

    return this == null || this.isBlank()
}
```

```kotlin
/**
 * 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
}
```

```kotlin
/** Returns the string if it is not `null` or consists solely of whitespace characters.
 *
 * @sample samples.text.Strings.stringIfEmpty
 */
@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.stringIfNotEmpty
 */
@kotlin.internal.InlineOnly
public inline fun String.ifNotEmpty(): String = ifNotEmpty
```
@sinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =
    if (isEmpty()) defaultValue() else this

/**
 * 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.
 */
@sinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =
    if (isBlank()) defaultValue() else this

/**
 * 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.lastIndexOf: Int
    get() = this.length - 1

/**
 * Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].
 */
@sinceKotlin("1.3")
@kotlin.internal.InlineOnly
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 substring of chars from a range of this char sequence starting at the
 * [startIndex] and ending right before the [endIndex].
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).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 = lastIndexOf(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 last occurrence of [delimiter].
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which
 * defaults to the original string.
 */
public fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

/**
 * Returns a subsequence of this char sequence 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.subSequenceBefore(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else subSequence(0, index)
}

/**
 * Returns a subsequence of this char sequence after the last occurrence of [delimiter].
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which
 * defaults to the original string.
 */
public fun String.subSequenceBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else subSequence(0, index)
}
-1) missingDelimiterValue else substring(0, index)

/*
 * Returns a substring after the last occurrence of [delimiter].
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + 1, length)
}

/*
 * Returns a substring after the last occurrence of [delimiter].
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)
}

/*
 * Returns a char sequence with content of this char sequence where its part at the given range is replaced with the [replacement] char sequence.
 */
public fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): CharSequence {
    if (endIndex < startIndex)
        throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")
    val sb = StringBuilder()
    sb.appendRange(this, 0, startIndex)
    sb.append(replacement)
    sb.appendRange(this, endIndex, length)
    return sb
}

/*
 * Removes the part of a string at the given range.
 * The end index of the [range] is included in the removed part.
 */
@kotlin.internal.InlineOnly
public inline fun String.removeRange(startIndex: Int, endIndex: Int): String =
    (this as CharSequence).removeRange(startIndex, endIndex).toString()

/*
 * Returns a char sequence with content of this char sequence where its part at the given range is removed.
 */
@UseExperimental(ExperimentalStdlibApi::class)
public fun CharSequence.removeRange(range: IntRange): CharSequence =
    removeRange(range.start, range.endInclusive + 1)

/*
 * If this char sequence starts with the given [prefix], returns a new char sequence
 * with the prefix removed. Otherwise, returns a new char sequence with the same characters.
 */
@UseExperimental(ExperimentalStdlibApi::class)
public fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {
    return if (startsWith(prefix)) {
        return subSequence(prefix.length, length)
    } else {
        return subSequence()}

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/**
 * If this string starts with the given [prefix], returns a copy of this string
 * with the prefix removed. Otherwise, returns this string.
 */
public fun String.removePrefix(prefix: CharSequence): String {
    if (startsWith(prefix)) {
        return substring(prefix.length)
    }
    return this
}

/**
 * If this char sequence ends with the given [suffix], returns a new char sequence
 * with the suffix removed. Otherwise, returns a new char sequence with the same characters.
 */
public fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {
    if (endsWith(suffix)) {
        return subSequence(0, length - suffix.length)
    }
    return this
}

/**
 * If this string ends with the given [suffix], returns a copy of this string
 * with the suffix removed. Otherwise returns this string.
 */
public fun String.removeSuffix(suffix: CharSequence): String {
    if (endsWith(suffix)) {
        return substring(0, length - suffix.length)
    }
    return this
}

/**
 * When this char sequence starts with the given [prefix] and ends with the given [suffix],
 * returns a new char sequence having both the given [prefix] and [suffix] removed. Otherwise returns a new char sequence
 * with the same characters.
 */
public fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {
    if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {
        return subSequence(prefix.length, length - suffix.length)
    }
    return subSequence(0, length)
}

/**
 * Removes from a string both the given [prefix] and [suffix] if and only if a
 * string starts with the [prefix] and ends with the [suffix]. Otherwise returns this string unchanged.
 */
public fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequences): String {
    if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {
        return subSequence(prefix.length, length - suffix.length)
    }
    return this
}

/**
 * Remove part of string before the first occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.removeBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

/**
 * Replace part of string after the first occurrence of given
 * delimiter with the [replacement] string.
 */
public fun String.removeAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)
}

/**
 * Replace part of string after the last occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.removeAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)
}

/**
 * Replace part of string after the first occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

/**
 * Replace part of string after the last occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)
}

/**
 * Replace part of string after the previous occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)
}

/**
 * Replace part of string after the previous occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index, index + delimiter.length, replacement)
}

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 * Replace part of string after the previous occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index, index + delimiter.length, replacement)
}

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 * Replace part of string after the previous occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index, index + delimiter.length, replacement)
}

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 * Replace part of string after the previous occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index, index + delimiter.length, replacement)
}

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 * Replace part of string after the previous occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index, index + delimiter.length, replacement)
}

/**
 * Replace part of string after the previous occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index, index + delimiter.length, replacement)
}

/**
 * Replace part of string after the previous occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index, index + delimiter.length, replacement)
}

/**
 * Replace part of string after the previous occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index, index + delimiter.length, replacement)
}

/**
 * Replace part of string after the previous occurrence of given delimiter
 * with the [replacement] string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index, index + delimiter.length, replacement)
}
[missingDelimiterValue] which defaults to the original string.

```kotlin
public fun String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)
}
```

```kotlin
/**
 * Replace part of string before the last occurrence of given delimiter with the [replacement] string.
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}
```

```kotlin
/**
 * Replace part of string before the last occurrence of given delimiter with the [replacement] string.
 * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.
 */
public fun String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}
```

```kotlin
/**
 * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression
 * with the given [replacement].
 *
 * The [replacement] can consist of any combination of literal text and $-substitutions. To treat
 * the replacement string literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)
```

```kotlin
/**
 * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression
 * with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a
 * replacement for that match.
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String =
    regex.replace(this, transform)
```

```kotlin
/**
 * Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.replaceFirst(regex: Regex, replacement: String): String = regex.replaceFirst(this, replacement)
```

```kotlin
/**
 * Returns `true` if this char sequence matches the given regular expression.
 */
@kotlin.internal.InlineOnly
public inline infix fun CharSequence.matches(regex: Regex): Boolean = regex.matches(this)
```

```kotlin
/**
 * Implementation of [regionMatches] for CharSequences.
 * Invoked when it’s already known that arguments are not Strings, so that no additional type checks are performed.
 */
internal fun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {
    if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) ||
        (otherOffset > other.length - length)) {
        return false
    }

    for (index in 0 until length) {
        if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))
            return false
    }
    return true
}
```

```kotlin
/**
 * Returns `true` if this char sequence starts with the specified character.
 */
public fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =
    this.length > 0 &&
    this[0].equals(char, ignoreCase)
```

```kotlin
/**
 * Returns `true` if this char sequence ends with the specified character.
 */
public fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =
    this.length > 0 &&
    this[lastIndex].equals(char, ignoreCase)
```

```kotlin
/**
 * Returns `true` if a substring of this char sequence starting at the specified offset
 * starts with the specified prefix.
 */
@kotlin.internal.InlineOnly
public fun CharSequence.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean =
    prefix.length > 0 &&
    prefix[0].equals(char, ignoreCase)
```

```kotlin
/**
 * Returns `true` if this char sequence ends with the specified suffix.
 */
@kotlin.internal.InlineOnly
public fun CharSequence.endsWith(suffix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean =
    suffix.length > 0 &&
    suffix[0].equals(char, ignoreCase)
```

```kotlin
// public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific
// public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific
```
toward the beginning of the string.

@ suppress("INAPPLICABLE_OPERATOR_MODIFIER")

/**
 * Returns `true` if this char sequence contains the specified [other] sequence of characters
 * as a substring.
 *
 * @param other A sequence of characters to search for.
 * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.

 * @ return An index of the last occurrence of [char] or -1 if none is found.
 */

public fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this is String)
        lastIndexOf(char, startIndex, 0, ignoreCase, last = true)
    else
        nativeLastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)

else

    return if (ignoreCase || this !is String)
        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)

else nativeLastIndexOf(char, startIndex)\n
/**
 * Returns the index within this char sequence of the last occurrence of [string] or -1 if none is found.
 */

public fun CharSequence.lastIndexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this is String)
        indexWithin(string, startIndex, 0, ignoreCase)
    else
        nativeLastIndexOf(string, startIndex)

/**
 * Returns the index within this char sequence of the last occurrence of [char] or -1 if none is found.
 */

public fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this !is String)
        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)

else

    return if (ignoreCase || this !is String)
        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)

else nativeLastIndexOf(char, startIndex)\n
/**
 * Returns the index within this char sequence of the last occurrence of [string] or -1 if none is found.
 */

public fun CharSequence.lastIndexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this is String)
        indexWithin(string, startIndex, 0, ignoreCase)
    else
        nativeLastIndexOf(string, startIndex)

/**
 * Returns the index within this char sequence of the last occurrence of [char] or -1 if none is found.
 */

public fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this !is String)
        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)

else

    return if (ignoreCase || this !is String)
        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)

else nativeLastIndexOf(char, startIndex)\n
/**
 * Returns the index within this char sequence of the last occurrence of [string] or -1 if none is found.
 */

public fun CharSequence.lastIndexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this is String)
        indexWithin(string, startIndex, 0, ignoreCase)
    else
        nativeLastIndexOf(string, startIndex)

/**
 * Returns the index within this char sequence of the last occurrence of [char] or -1 if none is found.
 */

public fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this !is String)
        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)

else

    return if (ignoreCase || this !is String)
        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)

else nativeLastIndexOf(char, startIndex)\n
/**
 * Returns the index within this char sequence of the last occurrence of [string] or -1 if none is found.
 */

public fun CharSequence.lastIndexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this is String)
        indexWithin(string, startIndex, 0, ignoreCase)
    else
        nativeLastIndexOf(string, startIndex)
/**
 * 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\n * 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\n * 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].
 * This is specialized version of split which receives single non-empty delimiter and offers better performance.
 * @param delimiter String used as delimiter
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return.
 */
private fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
    require(limit >= 0, { "Limit must be non-negative, but was $limit." })
    val delimitersList = delimiter.asList()

    return DelimitedRangesSequence(this, 0, limit, { currentIndex ->
        split(delimiter, ignoreCase = ignoreCase, limit = limit)[] })
}
"Limit must be non-negative, but was $limit." }

    var currentOffset = 0
    var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    if (nextIndex == -1 || limit == 1) {
        return listOf(this.toString())
    }

    val isLimited = limit > 0
    val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)
    do {
        result.add(substring(currentOffset, nextIndex))
        currentOffset = nextIndex + delimiter.length
        // Do not search for next occurrence if we're reaching limit
        if (isLimited && result.size == limit - 1) break
        nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
    } while (nextIndex != -1)

    result.add(substring(currentOffset, length))
    return result
}

/**
 * Splits this char sequence around matches of the given regular expression.
 *
 * @param limit Non-negative value specifying the maximum number of substrings to return.
 * @param value * @param limit limit * Non-negative value specifying the maximum number of substrings to return.
 * @param value * @param limit limit
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> =

/**
 * Splits this char sequence to a list of delimiters by any of the following character sequences: CRLF, LF or CR.
 */
public fun CharSequence.lineSequence(): Sequence<String> = splitToSequence("\r\n", "\n", "\r")

/**
 * Splits this char sequence to a list of delimiters by any of the following character sequences: CRLF, LF or CR.
 */
public fun CharSequence.lines(): List<String> = lineSequence().toList()
Malformed byte sequences are replaced by the replacement char `\uFFFD`.

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun ByteArray.decodeToString(): String {\n    return decodeUtf8(this, 0, size, false)\n}\n\n*\n@param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.\n*\n@param endIndex the end (exclusive) of the subrange to decode, size of this array by default.\n*\n*\nthrows IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n*\nthrows IllegalArgumentException if [startIndex] is greater than [endIndex].\n*\nthrows CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n@ExperimentalStdlibApi\npublic actual fun ByteArray.decodeToString(\n    startIndex: Int = 0,\n    endIndex: Int = this.size,\n    throwOnInvalidSequence: Boolean = false\n): String {\n    return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n*\nAny malformed char sequence is replaced by the replacement byte sequence.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(): ByteArray {\n    return encodeUtf8(this, 0, length, false)\n}\n\n*\n@param startIndex the beginning (inclusive) of the substring to encode, 0 by default.\n*\n@param endIndex the end (exclusive) of the substring to encode, length of this string by default.\n*\n*\nthrows IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\n*\nthrows IllegalArgumentException if [startIndex] is greater than [endIndex].\n*\nthrows CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n*\nAny malformed char sequence is replaced by the replacement byte sequence.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n*\nAny malformed char sequence is replaced by the replacement byte sequence.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n*\nAny malformed char sequence is replaced by the replacement byte sequence.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n*\nAny malformed char sequence is replaced by the replacement byte sequence.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n*\nAny malformed char sequence is replaced by the replacement byte sequence.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n*\nAny malformed char sequence is replaced by the replacement byte sequence.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n*\nAny malformed char sequence is replaced by the replacement byte sequence.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(\n    startIndex: Int = 0,\n    endIndex: Int = this.length,\n    throwOnInvalidSequence: Boolean = false\n): ByteArray {\n    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n*\nAny malformed char sequence is replaced by the replacement byte sequence.
public actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {
    if (ignoreCase) {
        val n1 = this.length
        val n2 = other.length
        val min = minOf(n1, n2)
        var s1 = this.substring(start, end)
        var s2 = other.substring(start, end)
        if (s1 != s2) {
            s1 = s1.toUpperCase()
            s2 = s2.toUpperCase()
        }
        return s1.compareTo(s2)
    } else {
        return compareTo(other)
    }
}

private val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }

@SinceKotlin("1.2")
public actual val String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>
    get() = STRING_CASE_INSENSITIVE_ORDER

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UByteArray
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@PublishedApi
internal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {

    /** Creates a new array of the specified [size], with all elements initialized to zero. */
    public constructor(size: Int) :
        this(ByteArray(size))

    /**
     * Returns the array element at the given [index]. This method can be called using
     * the index operator.
     * *
     * If the [index] is out of bounds of this array, throws an
     * [IndexOutOfBoundsException] except in Kotlin/JS
     * where the behavior is unspecified.
     * *
     * public operator fun get(index: Int): UByte = storage[index].toUByte()
     */
    public operator fun get(index: Int): UByte = storage[index]

    /**
     * Sets the element at the given [index] to the given [value]. This method can be called using
     * the index operator.
     * *
     * If the [index] is out of bounds of this array, throws an
     * [IndexOutOfBoundsException] except in Kotlin/JS
     * where the behavior is unspecified.
     * *
     * public operator fun set(index: Int, value: UByte) {
     */
    public operator fun set(index: Int, value: UByte) {
        storage[index] = value.toByte()
    }

    /** Returns the number of elements in the array. */
    public override val size: Int get() = storage.size

    /** Creates an iterator over the elements of the array. */
    public override operator fun iterator(): UByteIterator = Iterator(storage)

    private class Iterator(private val array: ByteArray) : UByteIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextUByte() = if (index < array.size)
            array[index++].toUByte() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: UByte): Boolean {
        if ((element as Any?) !is UByte) return false
        return storage.contains(element.toByte())
    }

    override fun containsAll(elements: Collection<UByte>): Boolean {
        return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }
    }

    override fun isEmpty(): Boolean = this.storage.size == 0
}

/**
 * Creates a new array of the specified [size], with all elements initialized to zero.
 * *
 * public constructor(size: Int):
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {
    return UByteArray(ByteArray(size) { index ->
        init(index).toByte()
    })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@PublishedApi
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
public inline class UIntArray
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@PublishedApi
internal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {

    /** Creates a new array of the specified [size], with all elements initialized to zero. */
    public constructor(size: Int) :
        this(IntArray(size))

    /**
     * Returns the array element at the given [index]. This method can be called using
     * the index operator.
     * *
     * If the [index] is out of bounds of this array, throws an
     * [IndexOutOfBoundsException] except in Kotlin/JS
     * where the behavior is unspecified.
     * *
     * public operator fun get(index: Int): UInt = storage[index].toUByte()
     */
    public operator fun get(index: Int): UInt = storage[index]

    /**
     * Sets the element at the given [index] to the given [value]. This method can be called using
     * the index operator.
     * *
     * If the [index] is out of bounds of this array, throws an
     * [IndexOutOfBoundsException] except in Kotlin/JS
     * where the behavior is unspecified.
     * *
     * public operator fun set(index: Int, value: UInt) {
     */
    public operator fun set(index: Int, value: UInt) {
        storage[index] = value.toByte()
    }

    /** Returns the number of elements in the array. */
    public override val size: Int get() = storage.size

    /** Creates an iterator over the elements of the array. */
    public override operator fun iterator(): UIntIterator = Iterator(storage)

    private class Iterator(private val array: IntArray) : UIntIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextUInt() = if (index < array.size)
            array[index++].toUByte() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: UInt): Boolean {
        if ((element as Any?) !is UInt) return false
        return storage.contains(element.toByte())
    }

    override fun containsAll(elements: Collection<UInt>): Boolean {
        return (elements as Collection<*>).all { it is UInt && storage.contains(it.toByte()) }
    }

    override fun isEmpty(): Boolean = this.storage.size == 0
}
this(IntArray(size)) /* * Returns the array element at the given [index]. This method can be called using
the index operator.
* */ * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.
* */ * public operator fun get(index: Int): UInt = storage[index].toUInt() /* * Sets the element at the given [index] to
the given [value]. This method can be called using the index operator.
* */ * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.
* */ public operator fun set(index: Int, value: UInt) {
    storage[index] = value.toInt()
} /* * Creates an iterator over the elements of the array.
* */ private class Iterator(private val array: IntArray) : UIntIterator() {
    private var index = 0
    override fun hasNext() = index < array.size
    override fun nextUInt() = if (index < array.size)
        array[index++].toUInt() else throw NoSuchElementException(index.toString())
} /* * Creates a new array of the specified [size], where each element is calculated by calling the specified
function. */ public inline class UIntArray(size: Int, init: (Int) -> UInt): UIntArray {
    return UIntArray(IntArray(size) { index ->
        init(index).toInt()
    })
} /* * Creates a new array of the specified [size], with all elements initialized to zero. */ public constructor(size: Int) :
this(LongArray(size)) /* * Returns the array element at the given [index]. This method can be called using
the index operator.
* */ * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.
* */ public operator fun get(index: Int): ULong = storage[index].toULong()

/* * Sets the element at the given [index] to [value]. This method can be called using
the index operator.
* */ * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.
* */ public operator fun set(index: Int, value: ULong) {
    storage[index] = value.toLong()
} /* * Creates an iterator over the elements of the array.
* */ private class Iterator(private val array: LongArray) : ULongIterator() {
    private var index = 0
    override fun hasNext() = index < array.size
    override fun nextULong() = if (index < array.size)
        array[index++].toULong() else throw NoSuchElementException(index.toString())
} /* * Creates a new array of the specified [size], where each element is calculated by calling the specified
function. */ public inline class ULongArray: ULongArray {
    public constructor(vararg elements: ULong): ULongArray = elements
Creates a new array of the specified [size], where each element is calculated by calling the specified `init` function. * `init` function is called for each array element sequentially starting from the first one. * It should return the value for an array element given its index. * 

```kotlin
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly
@kotlin.experimental
public inline fun
LongArray(size: Int, init: (Int) -> ULong): ULongArray {
    return ULongArray(LongArray(size) { index ->
        init(index).toLong() })
}
```

`ULong` array is implemented as a collection of `Long` arrays, where each `Long` array is accessed via `ULong` array. Here's the implementation of `ULong` array:

```kotlin
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@n@kotlin.internal.InlineOnly
public inline fun
ulongArrayOf(vararg elements: ULong): ULongArray = elements
```

This is a part of the Open Source project used in the CKC - Time Series Data Engine. The project is distributed under the Apache 2.0 license, which can be found in the LICENSE.txt file.
@kotlin.internal.InlineOnly
public inline operator fun times(other: UShort): ULong = this.times(other.toULong())
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UInt): ULong = this.times(other.toULong())
/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data)).data
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): ULong = this.div(other.toULong())
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): ULong = this.div(other.toULong())
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): ULong = this.div(other.toULong())
/** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong = ulongDivide(this, other)

/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())
/** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = ulongRemainder(this, other)

/** Increments this value. */
@kotlin.internal.InlineOnly
public inline operator fun inc(): ULong = ULong(data.inc())
/** Decrements this value. */
@kotlin.internal.InlineOnly
public inline operator fun dec(): ULong = ULong(data.dec())

/** Creates a range from this value to the specified [other] value. */
@kotlin.internal.InlineOnly
public inline operator fun rangeTo(other: ULong): ULongRange = ULongRange(this, other)

/** Shifts this value left by the [bitCount] number of bits. */
@kotlin.internal.InlineOnly
public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)
/** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */
@kotlin.internal.InlineOnly
public inline infix fun shr(bitCount: Int): ULong = ULong(data ushr bitCount)
/** Performs a bitwise AND operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun and(other: ULong): ULong = ULong(this.data and other.data)
/** Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)
/** Performs a bitwise XOR operation between the two values. */
@kotlin.internal.InlineOnly
public inline infix fun xor(other: ULong): ULong = ULong(this.data xor other.data)
/** Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public inline fun inv(): ULong = ULong(data.inv())

/** Converts this [ULong] value to [Byte]. */
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents
* the same numerical value as this `ULong`. * The resulting `Byte` value is represented by the least significant 8 bits
of this `ULong` value. * Note that the resulting `Byte` value may be negative. */
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte()  
/** Converts this [ULong] value to [Short]. */
* If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents
* the same numerical value as this `ULong`. * The resulting `Short` value is represented by the least significant 16 bits of this `ULong` value. * Note that the resulting `Short` value may be negative. */
@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data.toShort() 
/** Converts this [ULong] value to [Int]. */
* If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents
* the same numerical value as this `ULong`. * The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value. * Note that the resulting `Int` value may be negative. */
@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt() 
/** Converts this [ULong] value to [Long]. */
* If this value is less than or equals to [Long.MAX_VALUE], the resulting `Long` value represents
* the same numerical value as this `ULong`. * The resulting `Long` value has the same binary representation as this `ULong`. * The result is negative. */
@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data.toLong()
value to [UByte].
    * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents
      the same numerical value as this `ULong`.  
    * The resulting `UByte` value is represented by the least significant 8 bits of this `ULong` value.

    */
    @kotlin.internal.InlineOnly
    public
    inline fun toUByte(): UByte = data.toUByte()
    /**
     * Converts this [ULong] value to [UShort].
     *
     * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents
     * the same numerical value as this `ULong`.  
    */
    @kotlin.internal.InlineOnly
    public inline fun toUShort(): UShort = data.toUShort()
    /**
     * Converts this [ULong] value to [UInt].
     *
     * If this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents
     * the same numerical value as this `ULong`.  
    */
    @kotlin.internal.InlineOnly
    public inline fun toUInt(): UInt = data.toUInt()
    /** Returns this value. */
    @kotlin.internal.InlineOnly
    public inline fun toULong(): ULong = this

    /**
     * Converts this [ULong] value to [Float].
     *
     * The resulting value is the closest `Float` to this `ULong` value.  
    */
    @kotlin.internal.InlineOnly
    public inline fun toFloat(): Float = this.toDouble().toFloat()
    /**
     * Converts this [ULong] value to [Double].
     *
     * The resulting value is the closest `Double` to this `ULong` value.  
    */
    @kotlin.internal.InlineOnly
    public inline fun toDouble(): Double = ulongToDouble(data)

    public override fun toString(): String = ulongToString(data)

}

/**
 * Converts this [Byte] value to [ULong].
 *
 * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Byte`.
 * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value.  
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Byte.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this [Short] value to [ULong].
 *
 * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.
 * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value.  
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Short.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this [Int] value to [ULong].
 *
 * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`.
 * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value.  
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Int.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this [Long] value to [ULong].
 *
 * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`.
 * The resulting `ULong` value has the same binary representation as this `Long` value.  
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Long.toULong(): ULong = ULong(toULong())
/**
 * Converts this [Float] value to [ULong].
 *
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Float` value is negative or `NaN`.
 * [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.  
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Float.toULong(): ULong = doubleToULong(toDouble())
/**
 * Converts this [Double] value to [ULong].
 *
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Double` value is negative or `NaN`.
 * [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.  
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Double.toULong(): ULong = doubleToULong(toDouble())

/*
 * Copyright 2010-2019 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.txt file.  DO NOT EDIT! 
*/

package

Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6121
@SinceKotlin("1.3") @Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@PublishedApi

internal constructor(@PublishedApi internal val storage: ShortArray) : Collection<UShort> {
    @PublishedApi
    internal constructor(size: Int) {
        this(ShortArray(size))
    }

    /**
     * Returns the array element at the given [index]. This method can be called
     * using the index operator. */
    public operator fun get(index: Int): UShort = storage[index].toUShort()

    /**
     * Sets the element at the given [index] to the given [value]. This method can be called
     * using the index operator. */
    public operator fun set(index: Int, value: UShort) {
        storage[index] = value.toShort()
    }

    /** Returns the number of elements in the array. */
    public override val size: Int get() = storage.size

    /** Creates an iterator over the elements of the array. */
    public override operator fun iterator(): UShortIterator =

        Iterator(storage)

    private class Iterator(private val array: ShortArray) : UShortIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextUShort() = if (index < array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: UShort): Boolean {
        // TODO: Eliminate this check after KT-30016 gets fixed.
        // Currently JS BE does not generate special bridge method for this method.
        // if ((element as Any?) is UShort) return false
        return storage.contains(element.toShort())
    }

    override fun containsAll(elements: Collection<UShort>): Boolean {
        return (elements as Collection<*>).all { it is UShort &&
            storage.contains(it.toShort()) }
    }

    override fun isEmpty(): Boolean = this.storage.size == 0
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * [init] function. Each element index is called for each array element sequentially starting from the first one.
 * It should return the value for an array element given its index.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {
    return UShortArray(ShortArray(size) { index ->
        init(index).toShort()
    })
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UArraysKt")
@file:kotlin.jvm.JvmPackageName("kotlin.collections.unsigned")

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 1st *element* from the array.
 * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@PublishedApi

internal constructor(vararg elements: UShort) : Collection<UShort> {
    return UShortArray(elements.size) { index ->
        elements[index]
    }
}

/**
 * Returns 1st *element* from the array.
 * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@PublishedApi

internal constructor(vararg elements: UByte) : Collection<UByte> {
    return UShortArray(elements.toShortArray()) { index ->
        elements[index]
    }
}

/**
 * Returns 1st *element* from the array.
 * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@PublishedApi

internal constructor(vararg elements: UInt) : Collection<UInt> {
    return UShortArray(elements.toUShortArray()) { index ->
        elements[index]
    }
}

/**
 * Returns 1st *element* from the array.
 * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@PublishedApi

internal constructor(vararg elements: ULong) : Collection<ULong> {
    return UShortArray(elements.toULongArray()) { index ->
        elements[index]
    }
}

/**
 * Returns 1st *element* from the array.
 * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
behavior is unspecified.

*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component1(): UShort {\n    return get(0)\n}**\n\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*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component2(): ULong {\n    return get(1)\n}**\n\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*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component2(): UShort {\n    return get(1)\n}**\n\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*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component3(): ULong {\n    return get(2)\n}**\n\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*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component3(): UShort {\n    return get(2)\n}**\n\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*\@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component4(): ULong {\n    return get(3)\n}**\n\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*\@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.
 * 
 * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.component4(): UShort {
    return get(3)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.component5(): UInt {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.component5(): ULong {
    return get(4)
}

/**
 * Returns 5th *element* from the array.
 * 
 * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.component5(): UByte {
    return get(4)
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.elementAt(index: Int): UInt

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.elementAt(index: Int): ULong

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.elementAt(index: Int): UByte

/**
 * 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.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {
    return if (index >= 0 &&
    index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * @sample samples.collections.Elements.elementAtOrNull
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UShortArray.elementAtOrNull(index: Int): UShort? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * @sample samples.collections.Elements.elementAtOrNull
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UIntArray.elementAtOrNull(index: Int): UInt? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * @sample samples.collections.Elements.elementAtOrNull
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

ULongArray.elementAtOrNull(index: Int): ULong? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * @sample samples.collections.Elements.elementAtOrNull
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UByteArray.elementAtOrNull(index: Int): UByte? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 * @sample samples.collections.Elements.elementAtOrNull
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UShortArray.elementAtOrNull(index: Int): UShort? {
    return this.getOrNull(index)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample samples.collections.Elements.find
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UIntArray.find(predicate: (UInt) -> Boolean): UInt? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample samples.collections.Elements.find
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

ULongArray.find(predicate: (ULong) -> Boolean): ULong? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample samples.collections.Elements.find
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UByteArray.find(predicate: (UByte) -> Boolean): UByte? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 * @sample samples.collections.Elements.find
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UShortArray.find(predicate: (UShort) -> Boolean): UShort? {
    return firstOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 * @sample samples.collections.Elements.findLast
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 * @sample samples.collections.Elements.findLast
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 * @sample samples.collections.Elements.findLast
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 * @sample samples.collections.Elements.findLast
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {
    return lastOrNull(predicate)
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 * @sample samples.collections.Elements.first
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UIntArray.first(): UInt {
    return storage.first().toUInt()
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 * @sample samples.collections.Elements.first
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

ULongArray.first(): ULong {
    return storage.first().toULong()
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 * @sample samples.collections.Elements.first
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UByteArray.first(): UByte {
    return storage.first().toUByte()
}

/**
 * Returns the first element.
 * @throws [NoSuchElementException] if the array is empty.
 * @sample samples.collections.Elements.first
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UShortArray.first(): UShort {
    return storage.first().toUShort()
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 * @sample samples.collections.Elements.last
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UIntArray.last(): UInt {
    return storage.last().toUInt()
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 * @sample samples.collections.Elements.last
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

ULongArray.last(): ULong {
    return storage.last().toULong()
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 * @sample samples.collections.Elements.last
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UByteArray.last(): UByte {
    return storage.last().toUByte()
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 * @sample samples.collections.Elements.last
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun

UShortArray.last(): UShort {
    return storage.last().toUShort()
}
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun
UByteArray.first(): UByte {  
    return storage.first().toUByte()  
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun
UShortArray.first(): UShort {  
    return storage.first().toUShort()  
}

/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {  
    for (element in this) if (predicate(element)) return element  
    throw NoSuchElementException("Array contains no element matching the predicate.")  
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun
UByteArray.first(predicate: (UByte) -> Boolean): UByte {  
    for (element in this) if (predicate(element)) return element  
    throw NoSuchElementException("Array contains no element matching the predicate.")  
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element is found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun
UShortArray.first(predicate: (UShort) -> Boolean): UShort {  
    for (element in this) if (predicate(element)) return element  
    throw NoSuchElementException("Array contains no element matching the predicate.")  
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.firstOrNull(): UInt? {  
    return if (isEmpty()) null else this[0]  
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.firstOrNull(): ULong? {  
    return if (isEmpty()) null else this[0]  
}

/**
 * Returns the first element, or `null` if the array was not found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.firstOrNull(): UByte? {  
    return if (isEmpty()) null else this[0]  
}

/**
 * Returns the first element, or `null` if the array was not found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.firstOrNull(): UShort? {  
    return if (isEmpty()) null else this[0]  
}
return element
    return null
}

/**
 * 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.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * 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.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun UIntArray.indexOf(element: UInt): Int {
    return storage.indexOf(element.toInt())
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun ULongArray.indexOf(element: ULong): Int {
    return storage.indexOf(element.toLong())
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun UByteArray.indexOf(element: UByte): Int {
    return storage.indexOf(element.toByte())
}

/**
 * Returns first index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun UShortArray.indexOf(element: UShort): Int {
    return storage.indexOf(element.toShort())
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUInt()) }
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toULong()) }
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUByte()) }
}

/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
@SinceKotlin("1.3")[@ExperimentalUnsignedTypes]
@kotlin.internal.InlineOnly
public inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfFirst { predicate(it.toUShort()) }
}
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n   return storage.indexOfFirst {
      predicate(it.toUByte())}\n}\n\n/**
 * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n   return storage.indexOfFirst {
      predicate(it.toUShort())}\n}\n\n/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n   return storage.indexOfLast {
      predicate(it.toUInt())}\n}\n\n/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n   return storage.indexOfLast {
      predicate(it.toULong())}\n}\n\n/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n   return storage.indexOfLast {
      predicate(it.toUByte())}\n}\n\n/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n   return storage.indexOfLast {
      predicate(it.toUShort())}\n}\n\n/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UIntArray.last(): UInt {\n   return storage.last().toUInt()\n}\n\n/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
ULongArray.last(): ULong {\n   return storage.last().toULong()\n}\n\n/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UByteArray.last(): UByte {\n   return storage.last().toUByte()\n}\n\n/**
 * Returns the last element.
 * @throws [NoSuchElementException] if no such element is found.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UShortArray.last(): UShort {\n   return storage.last().toUShort()\n}\n\n/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n   for (index in this.indices.reversed()) {\n      if (predicate(index)) return index\n   }\n   throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n   for (index in this.indices.reversed()) {\n      if (predicate(index)) return index\n   }\n   throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n   for (index in this.indices.reversed()) {\n      if (predicate(index)) return index\n   }\n   throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
*\@SinceKotlin("1.3")\n*\@ExperimentalUnsignedTypes\n*\@kotlin.internal.InlineOnly\n*\public inline fun
UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n   for (index in this.indices.reversed()) {\n      if (predicate(index)) return index\n   }\n   throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 */
element matching the given [predicate].

```kotlin
* @throws [NoSuchElementException] if no such element is found.
* @throws [NoSuchElementException] if no such element is found.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UIntArray.lastOrNull(): UInt? {
    return if (isEmpty()) null else this[size - 1]
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun ULongArray.lastOrNull(): ULong? {
    return if (isEmpty()) null else this[size - 1]
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UByteArray.lastOrNull(): UByte? {
    return if (isEmpty()) null else this[size - 1]
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UShortArray.lastOrNull(): UShort? {
    return if (isEmpty()) null else this[size - 1]
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UIntArray.random(): UInt {
    return random(Random)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun ULongArray.random(): ULong {
    return random(Random)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UByteArray.random(): UByte {
    return random(Random)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UShortArray.random(): UShort {
    return random(Random)
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UIntArray.lastIndexOf(element: UInt): Int {
    return storage.lastIndexOf(element.toInt())
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun ULongArray.lastIndexOf(element: ULong): Int {
    return storage.lastIndexOf(element.toLong())
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UByteArray.lastIndexOf(element: UByte): Int {
    return storage.lastIndexOf(element.toByte())
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UShortArray.lastIndexOf(element: UShort): Int {
    return storage.lastIndexOf(element.toShort())
}
```

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array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.random(): UByte
    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")
@ExperimentalUnsignedTypes
public fun UIntArray.random(random: Random): UInt
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.randomOrNull(): UInt? {
    return randomOrNull(Random)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.random(): UShort
    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")
@ExperimentalUnsignedTypes
public fun UShortArray.random(random: Random): UShort
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.randomOrNull(): UShort? {
    return randomOrNull(Random)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.random(): UByte
    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")
@ExperimentalUnsignedTypes
public fun UByteArray.random(random: Random): UByte
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.randomOrNull(): UByte? {
    return randomOrNull(Random)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.random(): ULong
    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")
@ExperimentalUnsignedTypes
public fun ULongArray.random(random: Random): ULong
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun ULongArray.randomOrNull(): ULong? {
    return randomOrNull(Random)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.random(): UShort
    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")
@ExperimentalUnsignedTypes
public fun UShortArray.random(random: Random): UShort
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))

/**
 * Returns a random element from this array, or `null` if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.randomOrNull(): UShort? {
    return randomOrNull(Random)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.randomOrNull(): UInt? {
    return randomOrNull(Random)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.randomOrNull(): ULong? {
    return randomOrNull(Random)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.randomOrNull(): UByte? {
    return randomOrNull(Random)
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.randomOrNull(): UShort? {
    return randomOrNull(Random)
}
```
get(random.nextInt(size))

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UIntArray.single(): UInt {
    return storage.single().toUInt()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun ULongArray.single(): ULong {
    return storage.single().toULong()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UByteArray.single(): UByte {
    return storage.single().toUByte()
}

/**
 * Returns the single element, or throws an exception if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UShortArray.single(): UShort {
    return storage.single().toUShort()
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.singleOrNull(): UInt? {
    return if (size == 1) this[0] else null
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.singleOrNull(): ULong? {
    return if (size == 1) this[0] else null
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.singleOrNull(): UByte? {
    return if (size == 1) this[0] else null
}

/**
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.singleOrNull(): UShort? {
    return if (size == 1) this[0] else null
}
return if (size == 1) this[0] else null

/**
 * Returns single element, or 'null' if the array is empty or has more
 * than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.singleOrNull(): UShort? {
    return if (size == 1) this[0] else null
}

/**
 * Returns the single element matching the given [predicate], or 'null'
 * if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {
    var single: UInt? = null
    for (element in this) {
        if (predicate(element)) {
            if (single != null) return null
            single = element
        }
    }
    if (single == null) return null
    return single
}

/**
 * Returns the single element matching the given [predicate], or 'null'
 * if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {
    var single: ULong? = null
    for (element in this) {
        if (predicate(element)) {
            if (single != null) return null
            single = element
        }
    }
    if (single == null) return null
    return single
}

/**
 * Returns the single element matching the given [predicate], or 'null'
 * if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {
    var single: UByte? = null
    for (element in this) {
        if (predicate(element)) {
            if (single != null) return null
            single = element
        }
    }
    if (single == null) return null
    return single
}

/**
 * Returns the single element matching the given [predicate], or 'null'
 * if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
    var single: UShort? = null
    for (element in this) {
        if (predicate(element)) {
            if (single != null) return null
            single = element
        }
    }
    if (single == null) return null
    return single
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.drop(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count \$n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.drop(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count \$n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.drop(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count \$n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.drop(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count \$n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.dropLast(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count \$n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.dropLast(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count \$n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.dropLast(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count \$n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.dropLast(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count \$n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
IllegalArgumentException if \([n] \) is negative.\n
```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.dropLast(n: Int): List<ULong>
{
    require(n <= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))\n
* Returns a list containing all elements except last \([n] \) elements.\n* @throws
IllegalArgumentException if \([n] \) is negative.\n
```
/**
 * Returns a list containing only elements that satisfy 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.
 * @return a list containing only elements matching the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {
    return filterIndexedTo(ArrayList<UByte>(), predicate)
}

/**
 * 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {
    return filterIndexedTo(ArrayList<UShort>(), predicate)
}

/**
 * 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.
 * @return the updated [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C :MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
}
/**
 * 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.
 *
 * \[@SinceKotlin("1.3")\]\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.
 *
 * \[@SinceKotlin("1.3")\]\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.
 *
 * \[@SinceKotlin("1.3")\]\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.
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 * and returns the result of predicate evaluation on the element.
 *
 * \[@SinceKotlin("1.3")\]\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.
 *
 * \[@SinceKotlin("1.3")\]\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.
 *
 * \[@SinceKotlin("1.3")\]\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.
 *
 * \[@SinceKotlin("1.3")\]\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.
 *
 * \[@SinceKotlin("1.3")\]\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.
 *
 * \[@SinceKotlin("1.3")\]\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.
 */
all elements matching the given [predicate] to the given [destination].

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C :MutableCollection<in UInt>> ULongArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C :MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.slice(indices: IntRange): List<UInt> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.slice(indices: IntRange): List<ULong> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sliceArray(indices: Collection<Int>): UIntArray {
    return UIntArray(storage.sliceArray(indices))
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sliceArray(indices: Collection<Int>): ULongArray {
    return ULongArray(storage.sliceArray(indices))
}

/**
 * Returns an array containing elements of this array at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sliceArray(indices: Collection<Int>): UByteArray {
    return UByteArray(storage.sliceArray(indices))
}
```

---

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*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public fun ULongArray.sliceArray(indices: Collection<Int>): ULongArray {\n    return ULongArray(storage.sliceArray(indices))\n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public fun UByteArray.sliceArray(indices: Collection<Int>): UByteArray {\n    return UByteArray(storage.sliceArray(indices))\n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public fun UShortArray.sliceArray(indices: Collection<Int>): UShortArray {\n    return UShortArray(storage.sliceArray(indices))\n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public fun UIntArray.sliceArray(indices: IntRange): UIntArray {\n    return UIntArray(storage.sliceArray(indices))\n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public fun ULongArray.sliceArray(indices: IntRange): ULongArray {\n    return ULongArray(storage.sliceArray(indices))\n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public fun UByteArray.sliceArray(indices: Collection<Int>): UByteArray {\n    return UByteArray(storage.sliceArray(indices))\n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public fun UShortArray.sliceArray(indices: IntRange): UShortArray {\n    return UShortArray(storage.sliceArray(indices))\n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public fun UByteArray.sliceArray(indices: IntRange): UByteArray {\n    return UByteArray(storage.sliceArray(indices))\n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public fun UShortArray.sliceArray(indices: IntRange): UShortArray {\n    return UShortArray(storage.sliceArray(indices))\n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public 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) break \n    } \n    return list \n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public 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) break \n    } \n    return list \n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public 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) break \n    } \n    return list \n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public 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) break \n    } \n    return list \n} \n
*\@SinceKotlin("1.3")*\@ExperimentalUnsignedTypes\public 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
if (n >= size) return toList() or (n == 1) return listOf(this[size - 1]) or val list = ArrayList<UInt>(n)
for (index in size - n until size) list.add(this[index]) or return list

/**
 * Returns a list containing last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.takeLast(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." } or if (n == 0) return emptyList() or val size = size
    if (n >= size) return toList() or if (n == 1) return listOf(this[size - 1]) or val list = ArrayList<ULong>(n)
    for (index in size - n until size) list.add(this[index]) or return list
    or @throws IllegalArgumentExceptionException if [n] is negative.

/**
 * Returns a list containing last [n] elements satisfying the given [predicate].
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {
    val list = ArrayList<UInt>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/*@SinceKotlin("1.3")@ExperimentalUnsignedTypes*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {
    val list = ArrayList<ULong>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {
    val list = ArrayList<UByte>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * @sample samples.collections.Collections.Transformations.take
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {
    val list = ArrayList<UShort>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reverse(): Unit {
    storage.reverse()
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.reversed(): List<UInt> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.reversed(): List<ULong> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.reversed(): List<UByte> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.reversed(): List<UShort> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reversedArray(): UIntArray {
    return UIntArray(storage.reversedArray())
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reversedArray(): ULongArray {
    return ULongArray(storage.reversedArray())
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reversedArray(): UByteArray {
    return UByteArray(storage.reversedArray())
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reversedArray(): UShortArray {
    return UShortArray(storage.reversedArray())
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

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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. The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedDescending(): List<UShort> {
    return copyOf().apply { sort() }.reversed()
}
```

```kotlin
/**
 * Returns an array of type [List], which is a view of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.

 * An @SinceKotlin("1.3")\n * ExperimentalUnsignedTypes\n * inline fun

 * UByteArray.asByteArray(): ByteArray {
    return storage
}

 * ULongArray.asLongArray(): LongArray {
    return storage
}

 * UShortArray.asShortArray(): ShortArray {
    return storage
}

 * UByteArray.asUByteArray(): UByteArray {
    return UByteArray(this)
}

 * UIntArray.asUIntArray(): UIntArray {
    return UIntArray(this)
}

 * ULongArray.asULongArray(): ULongArray {
    return ULongArray(this)
}

 * UShortArray.asUShortArray(): UShortArray {
    return UShortArray(this)
}

 * UByteArray.contentEquals(other: UByteArray): Boolean {
    return storage.contentEquals(other.storage)
}

 * UIntArray.contentEquals(other: UIntArray): Boolean {
    return storage.contentEquals(other.storage)
}

 * ULongArray.contentEquals(other: ULongArray): Boolean {
    return storage.contentEquals(other.storage)
}

 * UShortArray.contentEquals(other: UShortArray): Boolean {
    return storage.contentEquals(other.storage)
}
```

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function `contentEquals` and `contentHashCode` for various array types:

```kotlin
/**
 * 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.
 */
public infix fun.ByteArray.contentEquals(other: ByteArray): Boolean {
    return 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.
 */
public infix fun UByteArray.contentEquals(other: UByteArray): Boolean {
    return 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.
 */
public infix fun UShortArray.contentEquals(other: UShortArray): Boolean {
    return 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.
 */
public infix fun UIntArray.contentEquals(other: UIntArray): Boolean {
    return 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.
 */
public infix fun ULongArray.contentEquals(other: ULongArray): Boolean {
    return 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.
 */
public infix fun UByteArray.contentEquals(other: UByteArray): Boolean {
    return 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.
 */
public infix fun UShortArray.contentEquals(other: UShortArray): Boolean {
    return 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.
 */
public infix fun UIntArray.contentEquals(other: UIntArray): Boolean {
    return 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.
 */
public infix fun ULongArray.contentEquals(other: ULongArray): Boolean {
    return storage.contentEquals(other.storage)
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
public fun ByteArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
public fun UByteArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
public fun UShortArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
public fun UIntArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */
public fun ULongArray.contentHashCode(): Int {
    return storage.contentHashCode()
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ByteArray.contentToString(): String {
    return joinToString(", ", "[", "]")
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.contentToString(): String {
    return joinToString(", ", "[", "]")
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.contentToString(): String {
    return joinToString(", ", "[", "]")
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.contentToString(): String {
    return joinToString(", ", "[", "]")
}

/**
 * Returns a string representation of the contents of the specified array as if it is [List].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.contentToString(): String {
    return joinToString(", ", "[", "]")
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * 
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * 
 * @throws 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    return destination
}
```

These functions provide basic operations for comparing and transforming arrays, ensuring compatibility and consistency between different types of arrays in the `Kotlin` framework.
Open Source Used In CKC - Time Series Data Engine 1.2.2.4

`ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ULongArray`

```kotlin
|\n| storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\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. 

`return destination\n

| \n```

* Copies this array or its subrange into the [destination] array and returns that array. 

```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes
public inline fun
```

UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UByteArray

```kotlin
| \n| storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\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. 

`return destination\n

| \n```

* Copies this array or its subrange into the [destination] array and returns that array. 

```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UShortArray

```kotlin
| \n| storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\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. 

`return destination\n

| \n```

* Copies this array or its subrange into the [destination] array and returns that array. 

```kotlin
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

UIntArray.copyOf(): UIntArray

```kotlin
\n
| \n```

Returns new array which is a copy of the original array. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyOf

```kotlin
\n
| \n```

Returns new array which is a copy of the original array. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyOf

```kotlin
\n
| \n```

Returns new array which is a copy of the original array. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyOf

```kotlin
\n
| \n```

Returns new array which is a copy of the original array. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyOf

```kotlin
\n
| \n```

Returns new array which is a copy of the original array. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyWith

```kotlin
\n
| \n```

Returns new array which is a copy of the original array, resized to the given [newSize]. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyWith

```kotlin
\n
| \n```

Returns new array which is a copy of the original array, resized to the given [newSize]. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyWith

```kotlin
\n
| \n```

Returns new array which is a copy of the original array, resized to the given [newSize]. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyWith

```kotlin
\n
| \n```

Returns new array which is a copy of the original array, resized to the given [newSize]. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyWith

```kotlin
\n
| \n```

Returns new array which is a copy of the original array, resized to the given [newSize]. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyWith

```kotlin
\n
| \n```

Returns new array which is a copy of the original array, resized to the given [newSize]. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyWith

```kotlin
\n
| \n```

Returns new array which is a copy of the original array, resized to the given [newSize]. 

```kotlin
* \n```

@sample samples.collections.Arrays.CopyOfOperations.copyWith

```kotlin
\n
| \n```

Returns new array which is a copy of the original array, resized to the given [newSize]. 

```kotlin
* \n```
array, the extra elements in the copy array are filled with zero values.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.copyOf(newSize: Int): ULongArray {
    return ULongArray(storage.copyOf(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is greater than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is less than the size of the original array, the extra elements in the copy array are filled with zero values.
 * Returns new array which is a copy of the specified range of the original array.
 * @param fromIndex the end of the range (exclusive), must be in `0..array.size`
 * @param toIndex the end of the range (inclusive), must be in `fromIndex..array.size`
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive), 0 by default.
 * @param toIndex the end of the range (inclusive), 0 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].
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), 0 by default.
 * @param toIndex the end of the range (exclusive), 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].
```

---

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Fills this array or its subrange with the specified [element] value.

@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("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit { storage.fill(element.toByte(), fromIndex, toIndex) }

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit { storage.fill(element.toShort(), fromIndex, toIndex) }

Returns the range of valid indices for the array.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UIntArray.indices: IntRange
    get() = storage.indices

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val ULongArray.indices: IntRange
    get() = storage.indices

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UByteArray.indices: IntRange
    get() = storage.indices

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UShortArray.indices: IntRange
    get() = storage.indices

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UIntArray.lastIndex: Int
    get() = storage.lastIndex

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val ULongArray.lastIndex: Int
    get() = storage.lastIndex

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UByteArray.lastIndex: Int
    get() = storage.lastIndex

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline val UShortArray.lastIndex: Int
    get() = storage.lastIndex

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun UIntArray.plus(element: UInt): UIntArray {
    return UIntArray(storage + element.toInt())
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun ULongArray.plus(element: ULong): ULongArray {
    return ULongArray(storage + element.toLong())
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun UByteArray.plus(element: UByte): UByteArray {
    return UByteArray(storage + element.toByte())
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun UShortArray.plus(element: UShort): UShortArray {
    return UShortArray(storage + element.toShort())
}

@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)
}

@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)
}

@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)
}

@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)
}

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/**
 * 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)
}

/**
 * Returns an array of type [ByteArray], which is a copy 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.toByteArray(): ByteArray {
    return storage.copyOf()
}

/**
 * Returns an array of type [IntArray], which is a copy 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.toIntArray(): IntArray {
    return storage.copyOf()
}

/**
 * Returns an array of type [LongArray], which is a copy 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.toLongArray(): LongArray {
    return storage.copyOf()
}

/**
 * Returns an array of type [ShortArray], which is a copy 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.toShortArray(): ShortArray {
    return storage.copyOf()
}
/*@SinceKotlin("1.3")@ExperimentalUnsignedTypes@s@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {  
    return flatMapTo(ArrayList<R>(), transform) /* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array. */
}*/
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@s@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {  
    return flatMapTo(ArrayList<R>(), transform) /* Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination]. */
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@s@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {  
    for (element in this) {  
        val list = transform(element)  
        destination.addAll(list)  
    }
    return destination /* Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination]. */
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@s@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {  
    for (element in this) {  
        val list = transform(element)  
        destination.addAll(list)  
    }
    return destination /* Groups elements of the original array by the key returned by the given [keySelector] function, applied to each element and returns a map where each group key is associated with a list of corresponding elements. */
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function, applied to each element and returns a map where each group key is associated with a list of corresponding elements. */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@s@kotlin.internal.InlineOnly
public inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {  
    return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector) /* Groups elements of the original array by the key returned by the given [keySelector] function, applied to each element and returns a map where each group key is associated with a list of corresponding elements. */
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function, applied to each element and returns a map where each group key is associated with a list of corresponding elements. */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@s@kotlin.internal.InlineOnly
public inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {  
    return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector) /* Groups elements of the original array by the key returned by the given [keySelector] function, applied to each element and returns a map where each group key is associated with a list of corresponding elements. */
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function, applied to each element and returns a map where each group key is associated with a list of corresponding elements. */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@s@kotlin.internal.InlineOnly
public inline fun <K> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {  
    return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector) /* Groups elements of the original array by the key returned by the given [keySelector] function, applied to each element and returns a map where each group key is associated with a list of corresponding elements. */
}

/**
 * Groups elements of the original array by the key returned by the given [keySelector] function, applied to each element and returns a map where each group key is associated with a list of corresponding elements. */
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@s@kotlin.internal.InlineOnly
public inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {  
    return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector) /* Groups elements of the original array by the key returned by the given [keySelector] function, applied to each element and returns a map where each group key is associated with a list of corresponding elements. */
}
where each group key is associated with a list of corresponding elements.
The returned map preserves the entry iteration order of the keys produced from the original array.

```kotlin
@SinceKotlin("1.3")
fun @ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <K>
UShortArray.groupBy(keySelector: (@UShort) -> K): Map<K, MutableList<UShort>> {
    return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector) {
        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 returns a map where each group key is associated with a list of corresponding values.
        The returned map preserves the entry iteration order of the keys produced from the original array.
    }
}
```

```kotlin
@SinceKotlin("1.3")
fun @ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <K, V>
UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform) {
        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 returns a map where each group key is associated with a list of corresponding values.
        The returned map preserves the entry iteration order of the keys produced from the original array.
    }
}
```

```kotlin
@SinceKotlin("1.3")
fun @ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <K, V>
ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform) {
        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 returns a map where each group key is associated with a list of corresponding values.
        The returned map preserves the entry iteration order of the keys produced from the original array.
    }
}
```

```kotlin
@SinceKotlin("1.3")
fun @ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <K, V>
UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform) {
        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 returns a map where each group key is associated with a list of corresponding values.
        The returned map preserves the entry iteration order of the keys produced from the original array.
    }
}
```

```kotlin
@SinceKotlin("1.3")
fun @ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {
    for (element in this)
        destination[keySelector(element)] += element
    return destination
}
```

```kotlin
@SinceKotlin("1.3")
fun @ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <K, M : MutableMap<in K, MutableList<UInt>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {
    for (element in this)
        destination[keySelector(element)] += element
    return destination
}
```

```kotlin
@SinceKotlin("1.3")
fun @ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {
    for (element in this)
        destination[keySelector(element)] += element
    return destination
}
```
MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<ULong>()
        }
        list.add(element)
    }
    return destination
}

/**
 * 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 * @param destination The [destination] map.
 * @param keySelector The [keySelector] function.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<ULong>()
            }
            list.add(element)
        }
        return destination
    }

MutableMap<in K, MutableList<UByte>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<UByte>()
        }
        list.add(element)
    }
    return destination
}

/**
 * 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 * @param destination The [destination] map.
 * @param keySelector The [keySelector] function.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<UByte>()
            }
            list.add(element)
        }
        return destination
    }

MutableMap<in K, MutableList<UShort>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<UShort>()
        }
        list.add(element)
    }
    return destination
}

/**
 * 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 * @param destination The [destination] map.
 * @param keySelector The [keySelector] function.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<UShort>()
            }
            list.add(element)
        }
        return destination
    }

MutableMap<in K, MutableList<UInt>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<V>()
        }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * 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 * @param destination The [destination] map.
 * @param keySelector The [keySelector] function.
 * @param valueTransform The [valueTransform] function.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<V>()
            }
            list.add(valueTransform(element))
        }
        return destination
    }

MutableMap<in K, MutableList<UShort>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<V>()
        }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * 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 * @param destination The [destination] map.
 * @param keySelector The [keySelector] function.
 * @param valueTransform The [valueTransform] function.
 * @return The [destination] map.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<V>()
            }
            list.add(valueTransform(element))
        }
        return destination
    }
= destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return
}

/**
 * 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.map(transform: (UInt) -> 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.map(transform: (ULong) -> 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.map(transform: (UByte) -> 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.map(transform: (UShort) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function \* to each element and its index in the original array.
 * 
 * @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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function \* to each element and its index in the original array.
 * 
 * @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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function \* to each element and its index in the original array.
 * 
 * @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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing the results of applying the given [transform] function \* to each element and its index in the original array.
 * 
 * @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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

/**
 * Applies the given \[transform\] function to each element and its index in the original array \n * and appends the results to the given [destination].
 * 
 * @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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> 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 \n * and appends the results to the given [destination].
 * 
 * @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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> 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 \n * and appends the results to the given [destination].
 * 
 * @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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> 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 \n * and appends the results to the given [destination].
 * 
 * @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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.withIndex(): Iterable<IndexedValue<UByte>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.withIndex(): Iterable<IndexedValue<UShort>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns `true` if all elements match the given [predicate].
 * @sample samples.collections.Collections.Aggregates.all
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.all(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

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```kotlin
/**
 * Returns `true` if all elements match the given [predicate].
 * This function is only for samples.collections.Collections.Aggregates.all
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given [predicate].
 * This function is only for samples.collections.Collections.Aggregates.all
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given [predicate].
 * This function is only for samples.collections.Collections.Aggregates.all
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.all(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if any element in the array has at least one element.
 * This function is only for samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if any element in the array has at least one element.
 * This function is only for samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun ULongArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if any element in the array has at least one element.
 * This function is only for samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if any element in the array has at least one element.
 * This function is only for samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns the number of elements matching the given [predicate].
 * This function is only for samples.collections.Collections.Aggregates.count
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UIntArray.count(predicate: (UInt) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 * This function is only for samples.collections.Collections.Aggregates.count
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun ULongArray.count(predicate: (ULong) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 * This function is only for samples.collections.Collections.Aggregates.count
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.count(predicate: (UByte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 * This function is only for samples.collections.Collections.Aggregates.count
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.count(predicate: (UShort) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
```

---

Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6153
public inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Accumulates value starting with [initial] value
 * and applying [operation] from left to right to current accumulator value and each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.fold(initial: R, operation: (acc: R, UInt) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.fold(initial: R, operation: (acc: R, ULong) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.fold(initial: R, operation: (acc: R, UByte) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.fold Indexed(initial: R, operation: (index: Int, acc: R, UByte) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <R> 
UIntArray.foldRight(initial: R, operation: (UInt, 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.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <R> 
ULongArray.foldRight(initial: R, operation: (ULong, 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.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <R> 
UByteArray.foldRight(initial: R, operation: (UByte, 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.
*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <R> 
UShortArray.foldRight(initial: R, operation: (UShort, 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 with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself
 * and current accumulator value, and calculates the next accumulator value.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <R> 
UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    --index
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right
to left to each element with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself
 * and current accumulator value, and calculates the next accumulator value.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <R> 
ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    --index
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right
to left to each element with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself
 * and current accumulator value, and calculates the next accumulator value.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <R> 
UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    --index
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right
to left to each element with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself
 * and current accumulator value, and calculates the next accumulator value.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <R> 
UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    --index
    }
    return accumulator
}
fun UIntArray.forEach(action: (UInt) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.forEach(action: (ULong) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.forEach(action: (UByte) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.forEach(action: (UShort) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.max(): UInt? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.max(): ULong? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.max(): UByte? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.max(): UShort? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {
    var maxELEM = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0)
        return maxELEM
    var maxValue = selector(maxELEM)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxELEM = e
            maxValue = v
        }
    }
    return maxELEM
}

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element yielding the largest value of the given function or `null` if there are no elements.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}
```

```kotlin
/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.maxWith(comparator: Comparator<in UInt>): UInt? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
```

```kotlin
/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.min(): UInt? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}
```

```kotlin
/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.min(): UByte? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}
```

```kotlin
/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.min(): UShort? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}
```
(isEmpty()) return null
   var min = this[0]
   for (i in 1..lastIndex) {
       val e = this[i]
       if (min > e) min = e
   }
   return min

/**
 * Returns the first element yielding the smallest value of the given function or `'null'` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {
    if (isEmpty()) return null
    var minElem = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or `'null'` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {
    if (isEmpty()) return null
    var minElem = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or `'null'` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {
    if (isEmpty()) return null
    var minElem = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns `true` if the array has no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if the array has no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if the array has no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if the array has no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
1..lastIndex) { \n    accumulator = operation(accumulator, this[index]) \n } \n return accumulator
\n/**
 * 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.
 * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {
    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.
 * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {
    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.
 * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {
    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. Returns null if the array is empty.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt? {
    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.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) -> ULong): ULong? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
```kotlin
/*
 * Accumulates value starting with the first element and applying [operation] from left to right.
 * Returns null if the array is empty.
 */
public inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) -> UByte): UByte? {
    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.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun UIntArray.reduceRight(operation: (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(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun ULongArray.reduceRight(operation: (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(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public inline fun UByteArray.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 last element and applying [operation] from right to left.
 * 
 * @sample samples.collections.Collections.Aggregates.reduceRight
 */
public 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
}
```

calculates the next accumulator value.

```
*\n* \n* @sample samples.collections.Collections.Aggregates.reduceRight

*\n* @SinceKotlin("1.3")\n* @ExperimentalUnsignedTypes\n* @kotlin.internal.InlineOnly\n*public 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)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left using each element with its index in the original array and current accumulator value. \n* @param \ [operation] \ function that takes the index of an element, the element itself and \ current accumulator value, and calculates the next accumulator value. \n* @sample \ samples.collections.Collections.Aggregates.reduceRight

*\n* @SinceKotlin("1.3")\n* @ExperimentalUnsignedTypes\n* @kotlin.internal.InlineOnly\n*public inline fun

UByteArray.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)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left using each element with its index in the original array and current accumulator value. \n* @param \ [operation] \ function that takes the index of an element, the element itself and \ current accumulator value, and calculates the next accumulator value. \n* @sample \ samples.collections.Collections.Aggregates.reduceRight

*\n* @SinceKotlin("1.3")\n* @ExperimentalUnsignedTypes\n* @kotlin.internal.InlineOnly\n*public inline fun

    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)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left using each element and current accumulator value. Returns null if the array is empty. \n* @sample \ samples.collections.Collections.Aggregates.reduceRightOrNull

*\n* @SinceKotlin("1.3")\n* @ExperimentalUnsignedTypes\n* @kotlin.internal.InlineOnly\n*y
*public inline fun

UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt): UInt? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left using each element and current accumulator value. Returns null if the array is empty. \n* @sample \ samples.collections.Collections.Aggregates.reduceRightOrNull

*\n* @SinceKotlin("1.3")\n* @ExperimentalUnsignedTypes\n* @kotlin.internal.InlineOnly\n*y
*public inline fun

UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) -> UByte): UByte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left using each element and current accumulator value. Returns null if the array is empty. \n* @sample \ samples.collections.Collections.Aggregates.reduceRightOrNull

*\n* @SinceKotlin("1.3")\n* @ExperimentalUnsignedTypes\n* @kotlin.internal.InlineOnly\n*y
*public inline fun

    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
```
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), 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 the `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.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> 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 the `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.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> 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 the `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.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> 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 the `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.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    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
}
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal:inlineOnl

public inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> 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])
        }
        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.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal:inlineOnl

public inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> 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])
        }
        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.scan
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal:inlineOnl

public inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> 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])
        }
        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 current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal:inlineOnl

public inline fun UIntArray.scanReduce(operation: (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(accumulator, this[index])
        }
        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.
 * 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.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal:inlineOnl

public inline fun ULongArray.scanReduce(operation: (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(accumulator, this[index])
        }
        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.
 * 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.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal:inlineOnl

public inline fun UByteArray.scanReduce(operation: (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(accumulator, this[index])
        }
        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.
 * 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.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal:inlineOnl

    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])
        }
        add(accumulator)
    }
    return result
}
takes current accumulator value and an element, and calculates the next accumulator value.

```kotlin
/*
 * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y

public inline fun ULongArray.scanReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    var result = ArrayList<ULong>(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 for each element 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 current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y

public inline fun UByteArray.scanReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    var result = ArrayList<UByte>(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 for each element 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 current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y

    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    var 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 for 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.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y

public inline fun UIntArray.scanReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    var 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 for 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.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y

public inline fun ULongArray.scanReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    var result = ArrayList<ULong>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
        return result
    }
}
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. If `acc` value is not mutated it would affect the previous value in resulting list.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.scanReduceIndexed(operation: (Int, acc: UByte, UByte) -> UByte): List<UByte>
```

This function 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. The `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. If `acc` value is not mutated it would affect the previous value in resulting list.
/**
 * Returns the sum of all values produced by
 * the [selector] function applied to each element in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumByDouble(selector: (UByte) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumByDouble(selector: (UShort) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {
    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 collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V>
UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * 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 collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V>
UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/**
 * 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 collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V>
UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {  
    val size = minOf(size, other.size)  
    val list = ArrayList<V>(size)  
    for (i in 0 until size) {  
        list.add(transform(this[i], other[i]))  
    }  
    return list  
}  

/**
 * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.  
 * The returned list has length of the shortest collection.  
 * @since 1.2.2.4  
 */
@ExperimentalUnsignedTypes
public infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UInt, R>> {  
    return zip(other) { t1, t2 -> t1 to t2 }  
}

/**
 * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.  
 * The returned list has length of the shortest collection.  
 * @since 1.2.2.4  
 */
@ExperimentalUnsignedTypes
public infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {  
    return zip(other) { t1, t2 -> t1 to t2 }  
}

/**
 * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.  
 * The returned list has length of the shortest collection.  
 * @since 1.2.2.4  
 */
@ExperimentalUnsignedTypes
public infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> {  
    return zip(other) { t1, t2 -> t1 to t2 }  
}

/**
 * Returns a list built from the elements of `this` collection and [other] array with the same index.  
 * The returned list has length of the shortest collection.  
 * @since 1.2.2.4  
 */
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
public infix fun <R> UIntArray.zip(other: Iterable<R>): List<Pair<UInt, R>> {  
    return zip(other) { t1, t2 -> t1 to t2 }  
}

/**
 * Returns a list built from the elements of `this` collection and [other] array with the same index.  
 * The returned list has length of the shortest collection.  
 * @since 1.2.2.4  
 */
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
public infix fun <R> ULongArray.zip(other: Iterable<R>): List<Pair<ULong, R>> {  
    return zip(other) { t1, t2 -> t1 to t2 }  
}

/**
 * Returns a list built from the elements of `this` collection and [other] array with the same index.  
 * The returned list has length of the shortest collection.  
 * @since 1.2.2.4  
 */
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
public infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {  
    return zip(other) { t1, t2 -> t1 to t2 }  
}

/**
 * Returns a list built from the elements of `this` collection and [other] array with the same index.  
 * The returned list has length of the shortest collection.  
 * @since 1.2.2.4  
 */
@ExperimentalUnsignedTypes
@ExperimentalUnsignedTypes
public infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> {  
    return zip(other) { t1, t2 -> t1 to t2 }  
}
returned list has length of the shortest collection.

@sample samples.collections.Operations.zipIterable

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray):
List<Pair<UInt, UInt>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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\* @sample samples.collections.Operations.zipIterable

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray):
List<Pair<ULong, ULong>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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\* @sample samples.collections.Operations.zipIterable

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray):
List<Pair<UByte, UByte>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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\* @sample samples.collections.Operations.zipIterable

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray):
List<Pair<UShort, UShort>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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\* @sample samples.collections.Operations.zipIterable

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\npublic fun UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {
    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))\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\* @sample samples.collections.Operations.zipIterableWithTransform

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\npublic fun ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {
    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))\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\* @sample samples.collections.Operations.zipIterableWithTransform

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\npublic fun UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {
    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))\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\* @sample samples.collections.Operations.zipIterableWithTransform

*\@SinceKotlin("1.3")\@ExperimentalUnsignedTypes\npublic fun UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {
    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))\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\* @sample samples.collections.Operations.zipIterableWithTransform

*\@SinceKotlin("1.3")\n\} \n\} \n* \n* @sample

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Array<out ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

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("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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.jvm.JvmName("sumOfUShort")
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.jvm.JvmName("sumOfUInt")
public fun Collection<UInt>.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.jvm.JvmName("sumOfULong")
public fun Collection<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.jvm.JvmName("sumOfUByte")
public fun Collection<UByte>.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.jvm.JvmName("sumOfUShort")
public fun Collection<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/*
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 */

package kotlin.collections

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt file
// 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this)
        sum += element
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this)
        sum += element
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this)
        sum += element
    return sum
}

/**
 * Returns the sum of all elements in the collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this)
        sum += element
    return sum
}

/*
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 */
package kotlin.comparisons

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import 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.
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@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
    return maxOf(a, maxOf(b, c))
}

/**
 * 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.
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@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))
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/**
 * Returns the smaller of three values.
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@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {
    return minOf(a, minOf(b, c))
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/**
 * Returns the smaller of three values.
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@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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    return minOf(a, minOf(b, c))
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun randomInRange(lower: UInt, upper: UInt): UInt {
    return randomInRange(lower, upper, Random())
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun randomInRange(lower: ULong, upper: ULong): ULong {
    return randomInRange(lower, upper, Random())
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun randomInRange(lower: UByte, upper: UByte): UByte {
    return randomInRange(lower, upper, Random())
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun randomInRange(lower: UShort, upper: UShort): UShort {
    return randomInRange(lower, upper, Random())
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun randomInRange(lower: UIntRange, upper: UIntRange): UInt {
    return randomInRange(lower, upper, Random())
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun randomInRange(lower: ULongRange, upper: ULongRange): ULong {
    return randomInRange(lower, upper, Random())
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun randomInRange(lower: UIntRange, upper: UIntRange, random: Random): UInt {
    return randomInRange(lower, upper, random)
}

/**
 * Returns a random element from this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun randomInRange(lower: ULongRange, upper: ULongRange, random: Random): ULong {
    return randomInRange(lower, upper, random)
}
range using the specified source of randomness.\n
```kotlin
*\n* @throws IllegalArgumentException if this range is empty.\n*\n* @SinceKotlin("1.3")\n@KotlinInternal\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* @SinceKotlin("1.3")\n@KotlinInternal\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}
```

---

```kotlin
*\n* Returns a random element from this range, or `null` if this range is empty.\n*\n* @SinceKotlin("1.3")\n@KotlinInternal\n@ExperimentalUnsignedTypes\npublic fun UIntRange.randomOrNull(): UInt? {\n    return randomOrNull(Random)\n}\n
*\n* Returns a random element from this range, or `null` if this range is empty.\n*\n* @SinceKotlin("1.3")\n@KotlinInternal\n@ExperimentalUnsignedTypes\npublic fun ULongRange.randomOrNull(): ULong? {\n    return randomOrNull(Random)\n}\n
*\n* Checks if the specified [value] belongs to this range.\n*\n* @SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: UByte): Boolean {\n    return contains(value.toUInt())\n}\n
*\n* Checks if the specified [value] belongs to this range.\n*\n* @SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: ULong): Boolean {\n    return contains(value.toULong())\n}\n
*\n* Checks if the specified [value] belongs to this range.\n*\n* @SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: UShort): Boolean {\n    return contains(value.toUInt())\n}\n
*\n* Checks if the specified [value] belongs to this range.\n*\n* @SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UShort): Boolean {\n    return contains(value.toULong())\n}\n```

---

```kotlin
*\n* Returns a progression from this value down to the specified [to] value with the step -1.\n*\n* @SinceKotlin("1.3")\n@KotlinInternal\n@ExperimentalUnsignedTypes\npublic infix fun UIntRange.downTo(to: UByte): UIntProgression {\n    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n
*\n* Returns a progression from this value down to the specified [to] value with the step -1.\n*\n* @SinceKotlin("1.3")\n@KotlinInternal\n@ExperimentalUnsignedTypes\npublic infix fun ULongRange.downTo(to: UByte): ULongProgression {\n    return ULongProgression.fromClosedRange(this.toULong(), to.toULong(), -1)\n}\n```

---

```kotlin
*\n* Returns a progression from this value down to the specified [to] value with the step -1.\n*\n* @SinceKotlin("1.3")\n@KotlinInternal\n@ExperimentalUnsignedTypes\npub
than or equal to 'this' value.

* If the [to] value is greater than 'this' value the returned progression is empty.

* If the [to] value is greater than 'this' value the returned progression is empty.

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* If the [to] value is greater than 'this' value the returned progression is empty.
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.coerceAtLeastUnsigned

 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByte.coerceAtLeast(minimumValue: UByte): UByte {
    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.coerceAtLeastUnsigned

 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShort.coerceAtLeast(minimumValue: UShort): UShort {
    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.coerceAtMostUnsigned

 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UInt.coerceAtMost(maximumValue: UInt): UInt {
    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.coerceAtMostUnsigned

 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceAtMost(maximumValue: ULong): ULong {
    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.coerceInUnsigned

 */
@SinceKotlin("1.3")
@ ExperimentalUnsignedTypes
public fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {
    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.coerceInUnsigned

 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {
    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
}

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samples.comparisons.ComparableOps.coerceInUnsigned

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {
    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
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {
    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
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun UInt.coerceIn(range: ClosedRange<UInt>): UInt {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<UInt>(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
    }
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public 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
    }
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun Sequence<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun Sequence<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun Sequence<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun Sequence<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun Sequence<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun Sequence<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this) {
        sum += element
    }
    return sum
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun Sequence<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@public fun Sequence<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/*
 #include ⟨kotlin/jvm/JvmMultifileClass⟩
 * @file: kotlin/jvm/JvmMultifileClass

 * @package kotlin.sequences

 * @file: kotlin/jvm/JvmMultifileClass

 * 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 sum of all elements in the sequence.
 * @param *n The operation is _terminal_.

 * An@kotlin/jvm/JvmMultifileClass

 * An@kotlin/jvm/JvmMultifileClass

 * An@kotlin/jvm/JvmMultifileClass

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Classes that inherit from this interface can be represented as a sequence of elements that can be iterated over and that supports removing elements during iteration. A generic collection of elements. Methods in this interface support only read-only access to the collection; read/write access is supported through the [MutableCollection] interface. Override fun iterator(): MutableListIterator<out T> : Collection<+, E> { \n // Query Operations\n /\n *\n * Returns an iterator over the elements of this collection that supports removing elements during iteration. \n */\n *\n * override fun iterator(): MutableListIterator<out T> \n // Bulk Operations\n /\n *\n * Returns a null value if the specified property is not present in the collection. \n */\n *\n * \n // Positional Access Operations\n /\n * Returns the element at the specified index in the list. \n */\n *\n * \n // Search Operations\n /\n *\n * Returns the index of the first occurrence of the specified
the type of map keys. The map is invariant on its key type, as it can accept key as a parameter (of read-only access to the map; read-write access is supported through the [MutableMap] interface).
 * @param K

    * The elements are appended in the order they appear in the [elements] collection.
 * The returned list is backed by this list, so non-structural changes in the returned list are reflected in this list, and vice-versa.

    /**
     * Adds the specified element to the end of this list.
     *
     * @return `true` if the list was changed as the result of the operation.
     */
    public fun add(element: E): Boolean

    // Positional Access Operations
    override fun get(index: Int): @UnsafeVariance E
    override fun set(index: Int, element: E): E
    override fun removeAt(index: Int): E

    // List Iterators
    override fun listIterator(): MutableListIterator<E>

    // View
    /**
     * Returns a list iterator over the elements in this list (in proper sequence), starting at the specified [index].
     */
    public fun listIterator(index: Int): ListIterator<E>

    /**
     * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).
     */
    public fun subList(fromIndex: Int, toIndex: Int): List<E>

    // Query Operations
    /**
     * Returns `true` if the element is not contained in the list.
     */
    public fun indexOf(element: @UnsafeVariance E): Int
    /**
     * Returns the index of the last occurrence of the specified element in the list, or `-1` if the specified element is not contained in the list.
     */
    public fun lastIndexOf(element: @UnsafeVariance E): Int

    // Bulk Operations
    override fun addAll(collection: Collection<@UnsafeVariance E>): Boolean
    override fun removeAll(collection: Collection<E>): Boolean
    override fun retainAll(collection: Collection<E>): Boolean
    override fun iterator(): Iterator<E>
    override fun listIterator(): MutableListIterator<E>
    override fun subList(fromIndex: Int, toIndex: Int): List<E>
    override fun addAll(elements: Collection<E>): Boolean
    override fun removeAll(elements: Collection<E>): Boolean
    override fun retainAll(elements: Collection<E>): Boolean
    override fun iterator(): Iterator<E>
    override fun listIterator(): MutableListIterator<E>
    override fun subList(fromIndex: Int, toIndex: Int): List<E>

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    /**
     * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).
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    override fun get(index: Int): @UnsafeVariance E
    override fun set(index: Int, element: E): E
    override fun removeAt(index: Int): E

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    public fun lastIndexOf(element: @UnsafeVariance E): Int

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    override fun addAll(collection: Collection<@UnsafeVariance E>): Boolean
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    // View
    /**
     * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).
     */
    public fun subList(fromIndex: Int, toIndex: Int): List<E>

    // Positional Access Operations
    override fun get(index: Int): @UnsafeVariance E
    override fun set(index: Int, element: E): E
    override fun removeAt(index: Int): E

    // List Iterators
    override fun listIterator(): MutableListIterator<E>

    // View
    /**
     * Returns a list iterator over the elements in this list (in proper sequence), starting at the specified [index].
     */
    public fun listIterator(index: Int): ListIterator<E>

    /**
     * Returns the index of the last occurrence of the specified element in the list, or `-1` if the specified element is not contained in the list.
     */
    public fun lastIndexOf(element: @UnsafeVariance E): Int

    // Bulk Operations
    override fun addAll(collection: Collection<@UnsafeVariance E>): Boolean
    override fun removeAll(collection: Collection<E>): Boolean
    override fun retainAll(collection: Collection<E>): Boolean
    override fun iterator(): Iterator<E>
    override fun listIterator(): MutableListIterator<E>
    override fun subList(fromIndex: Int, toIndex: Int): List<E>
@UnsafeVariance V): Boolean

    * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.

    * @key type: the type of map keys.
    * @param V the type of map values.

    * @param K the type of map keys.
    * @param V the type of map values.

    * 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.

    * The mutable map is invariant on its value type. Enables efficient retrieval of key/value pairs from the specified map [from] and return it in [keys] set.

    * @param V the type of map values.

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An iterator over a sequence of values of type `Char`.

(Item: Char) * @property step the number by which the value is incremented on each step.

*internal class CharProgressionIterator(first: Char, last: Char, val step: Int): CharIterator() {
    \n    private var finalElement = last.toInt()
    private var hasNext = Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first.toInt() else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextChar(): Char {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value.toChar()
    }
}

/** A progression of values of type `Char`.
 * @property step the number by which the value is incremented on each step.
 */
internal class CharProgressionIterator(first: Char, last: Char, val step: Int) : CharIterator() {
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            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value.toChar()
    }
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        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value.toChar()
    }
}
step == other.step) override fun hashCode(): Int =
    if (isEmpty()) -1 else (31 * (31 * first.toInt() +
        last.toInt()) + step) override fun toString(): String = if (step > 0) "$first..$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        * An\n    
    public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression =
        CharProgression(rangeStart, rangeEnd, step)\n    }
}

/**
 * A progression of values of type `Char`.
 */
public open class CharProgression
    internal constructor Ön (\n        start: Char, \n        endInclusive: Char, \n        step: Char\n    ) : Iterable<Char> { Ön init Ön if (step == 0L) 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        * The first element in the progression.\n        * The last element in the progression.\n        * The step of the progression.\n    }
}

/**
 * A progression of values of type `Long`.
 */
public open class LongProgression
    internal constructor Ön (\n        start: Long, \n        endInclusive: Long, \n        step: Long\n    ) : Iterable<Long> { Ön init Ön if (step == 0L) 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        * The first element in the progression.\n        * The last element in the progression.\n        * The step of the progression.\n    }
}

/**
 * A progression of values of type `Int`.
 */
public class IntProgression
    internal constructor Ön (\n        start: Int, \n        endInclusive: Int, \n        step: Int\n    ) : Iterable<Int> { Ön init Ön 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        * The first element in the progression.\n        * The last element in the progression.\n        * The step of the progression.\n    }
}


ClosedRange<T: Comparable<T>> {
    /**
     * The minimum value in the range.
     */
    public val start: T

    /**
     * The maximum value in the range (inclusive).
     */
    public val endInclusive: T

    /**
     * Checks whether the specified [value] belongs to the range.
     */
    public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive

    /**
     * Checks whether the range is empty.
     */
    public fun isEmpty(): Boolean = start > endInclusive
}

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 */

package kotlin

/**
 * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.
 */
public object Unit {
    override fun toString() = "kotlin.Unit"
}

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 */

package kotlin.annotation

import kotlin.annotation.AnnotationTarget.*

/**
 * Contains the list of code elements which are the possible annotation targets
 * Class, interface or object, annotation class is also included
 * ** Annotation class only
 * ANNOTATION_CLASS
 */
public annotation class Target(vararg val allowedTargets: AnnotationTarget)

/**
 * This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true.
 */
@Target(AnnotationTarget.ANNOTATION_CLASS)
@MustBeDocumented
public annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)

/**
 * This meta-annotation determines that an annotation is applicable twice or more on a single code element
 */
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class Repeatable

/**
 * 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)
public annotation class MustBeDocumented
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information.

    public val STAR: KTypeProjection = KTypeProjection(null, null) //
    /*
    * 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`.
    */
    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`.
    */
    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`.
    */
    public fun covariant(type: KType): KTypeProjection =
            KTypeProjection(KVariance.OUT, type)
}

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 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

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.
 */
@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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 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

@JsName("arrayIterator")
internal fun arrayIterator(array: dynamic, type: String?) = when (type) {
    null -> {
        val arr: Array<dynamic> = array
        object : Iterator<dynamic> {
            var index = 0
            override fun hasNext() = index < arr.size
            override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("$index")
        }
    }
    "BooleanArray" -> booleanArrayIterator(array)
    "ByteArray" -> byteArrayIterator(array)
    "ShortArray" -> shortArrayIterator(array)
    "CharArray" -> charArrayIterator(array)
    "IntArray" -> intArrayIterator(array)

    }
"LongArray" -> longArrayIterator(array)
"FloatArray" -> floatArrayIterator(array)
"DoubleArray" ->
doubleArrayIterator(array) else -> throw IllegalStateException("Unsupported type argument for arrayIterator: Type $type")
"byteArrayIterator"(array: ByteArray) = object : ByteIterator() { [n var index = 0 n override fun hasNext() = index < array.size

override fun nextByte() = if (index < array.size) array[index++]

else throw NoSuchElementException("$index")
}

@JsName("booleanArrayIterator")
internal fun booleanArrayIterator(array: BooleanArray) =

object : BooleanIterator() {
    var index = 0
    override fun hasNext() = index < array.size

    override fun nextBoolean() = if (index < array.size) array[index++]

    else throw NoSuchElementException("$index")
}

@JsName("byteArrayIterator")
internal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {
    var index = 0
    override fun hasNext() = index < array.size

    override fun nextByte() = if (index < array.size) array[index++]

    else throw NoSuchElementException("$index")
}

@JsName("shortArrayIterator")
internal fun shortArrayIterator(array: ShortArray) = object : ShortIterator() {
    var index = 0
    override fun hasNext() = index < array.size

    override fun nextShort() = if (index < array.size) array[index++]

    else throw NoSuchElementException("$index")
}

@JsName("charArrayIterator")
internal fun charArrayIterator(array: CharArray) = object : CharIterator() {
    var index = 0
    override fun hasNext() = index < array.size

    override fun nextChar() = if (index < array.size) array[index++]

    else throw NoSuchElementException("$index")
}

@JsName("intArrayIterator")
internal fun intArrayIterator(array: IntArray) = object : IntIterator() {
    var index = 0
    override fun hasNext() = index < array.size

    override fun nextInt() = if (index < array.size) array[index++]

    else throw NoSuchElementException("$index")
}

@JsName("floatArrayIterator")
internal fun floatArrayIterator(array: FloatArray) = object : FloatIterator() {
    var index = 0
    override fun hasNext() = index < array.size

    override fun nextFloat() = if (index < array.size) array[index++]

    else throw NoSuchElementException("$index")
}

@JsName("doubleArrayIterator")
internal fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {
    var index = 0
    override fun hasNext() = index < array.size

    override fun nextDouble() = if (index < array.size) array[index++]

    else throw NoSuchElementException("$index")
}

@JsName("longArrayIterator")
internal fun longArrayIterator(array: LongArray) = object : LongIterator() {
    var index = 0
    override fun hasNext() = index < array.size

    override fun nextLong() = if (index < array.size) array[index++]

    else throw NoSuchElementException("$index")
}

@JsName("PropertyMetadata")
internal class PropertyMetadata(@JsName("callableName") val name: String) {

    @JsName("noWhenBranchMatched")
    internal fun noWhenBranchMatched(): Nothing = throw NoWhenBranchMatchedException()

    @JsName("subSequence")
    internal fun subSequence(c: CharSequence, startIndex: Int, endIndex: Int): CharSequence {
        if (c is String) {
            return c.substring(startIndex, endIndex)
        } else {
            return c.asDynamic().`subSequence_vux9f0$` (startIndex, endIndex)
        }
    }

    @JsName("captureStack")
    internal fun captureStack(baseClass: JsClass<in Throwable>, instance: Throwable) {
        if (js("Error").captureStackTrace) {
            js("Error").captureStackTrace(instance, instance::class.js)
        } else {
            instance.asDynamic().stack = js("new Error()").stack
        }
    }

    @JsName("newThrowable")
    internal fun newThrowable(message: String?, cause: Throwable?): Throwable {
        val throwable = js("new Error()")
        throwable.message = if (jsTypeOf(message) == "undefined") {
            if (cause != null) cause.toString() else null
        } else {
            message
        }

        throwable.cause = cause
        throwable.name = "Throwable"
        return throwable
    }

    @JsName("BoxedChar")
    internal class BoxedChar(val c: Int) : Comparable<Int> {

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar && c == other.c
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        @JsName("valueOf")
        public fun valueOf(): Int {
            return c
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun compareTo(other: Int): Int {
            return js("this.c - other.c").unsafeCast<Int?>().compareTo(other)
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
            return js("this.c").unsafeCast<Char>().toString()
        }

        override fun equals(other: Any?): Boolean {
            return other is BoxedChar
        }

        override fun hashCode(): Int {
            return c
        }

        override fun toString(): String {
internal fun <T> arrayConcat(a: T, b: T): T {
    return concat(js("arguments"))
}

/**
 * Concat primitive arrays. Main use:
 * prepare vararg arguments.
 */
@PublishedApi
@JsName("arrayConcat")
@Suppress("UNUSED_PARAMETER")
internal fun <T> arrayPrimitiveArrayConcat(a: T, b: T): T {
    val args: Array<T> = js("arguments")
    if (a is Array<*>) {
        return concat(args)
    } else {
        var size = 0
        for (i in args.indices) {
            size += args[i].asDynamic().length as Int
        }
        val result = js("new a.constructor(size)")
        kotlin.copyArrayType(a, result)
        size = 0
        for (i in args.indices) {
            val arr = args[i].asDynamic()
            for (j in 0 until arr.length) {
                result[size++].asDynamic().`$type$` = arr[j]
            }
        }
        return result
    }
}

@JsName("booleanArrayOf")
internal fun booleanArrayOf() =
    withType("BooleanArray", js("[].slice.call(arguments)"))

@JsName("charArrayOf")
internal fun charArrayOf() =
    withType("CharArray", js("new Uint16Array([].slice.call(arguments))"))

@JsName("longArrayOf")
internal fun longArrayOf() =
    withType("LongArray", js("[].slice.call(arguments)"))

@JsName("withType")
@kotlin.internal.InlineOnly
internal inline fun withType(type: String, array: dynamic): dynamic {
    array.`$type$` = type
    return array
}

newSize
while (index < newSize) result[index++] = defaultValue
}

internal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {
    val result = array.slice()
    result.length += collection.size
    copyArrayType(array, result)
    var index: Int = array.length
    for (element in collection) result[index++] = element
    return result
}

internal fun <T> fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {
    var index = startIndex
    for (element in collection) dst[index++] = element
    return dst
}

internal inline fun copyArrayType(from: dynamic, to: dynamic) {
    if(from.`$type$` !== undefined) {
        to.`$type$` = from.`$type$`
    }
}

internal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js("Kotlin").isType(obj, jsClass)
returns `false`.

public val isFailure: Boolean

get() = value is Failure

value & exception retrieval

* Returns the encapsulated value if this instance represents [success][Result.isSuccess] or `null`
* Returns a string that encapsulates the given [value] as successful value.

T

null

* Returns an instance that encapsulates the given [Throwable] [exception] as failure.

null

*

 Returns an instance that encapsulates the given [Throwable] [exception] as failure.

null

*

Returns an instance that encapsulates the given [value] as successful value.

null

*

Returns a string `Success(v)` if this instance represents [success][Result.isSuccess] or `null`
* Returns an instance that encapsulates the given [value] as successful value.

null

*

Returns an instance that encapsulates the given [value] as successful value.

null

*

Returns an instance that encapsulates the given [value] as successful value.

null

*

Returns a string `Success(v)` if this instance represents [success][Result.isSuccess] or `null`
* Returns an instance that encapsulates the given [value] as successful value.

null

*

Returns an instance that encapsulates the given [value] as successful value.

null

*
function is a shorthand for `getOrElse { defaultValue }` (see `getOrElse`).

```kotlin
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R> Result<T>.getOrElse(defaultValue: R): R {
    if (isFailure) return defaultValue
    return value as T
}
```

```kotlin
/**
 * Returns the result of [onSuccess] for the encapsulated value if this instance represents [success][Result.isSuccess] or the * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].
 * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.fold(onSuccess: (value: T) -> R, onFailure: (exception: Throwable) -> R): R {
    contract {
        callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)
        callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> onSuccess(value as T)
        else -> onFailure(exception)
    }
}
```

```kotlin
/**
 * Returns the encapsulated result of the given [transform] function applied to the encapsulated value.
 * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {
    contract {
        callsInPlace(transform, InvocationKind.AT_MOST_ONCE)
    }
    return when {
        isSuccess -> Result.success(transform(value as T))
        else -> Result(value)
    }
}
```

```kotlin
/**
 * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception if it is [failure][Result.isFailure] or the * original encapsulated value if it is [success][Result.isSuccess].
 * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {
    contract {
        callsInPlace(transform, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> this
        else -> runCatching { transform(exception) }
    }
}
```

```kotlin
/**
 * Performs the given [action] on the encapsulated [Throwable] exception if this instance represents [failure][Result.isFailure].
 * Returns the original `Result` unchanged.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {
    contract {
        callsInPlace(action, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> this
        else -> runCatching { transform(exception) }
    }
}
```

```kotlin
/**
 * Performs the given [action] on the encapsulated value if this instance represents [success][Result.isSuccess].
 * Returns the original `Result` unchanged.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {
    contract {
        callsInPlace(action, InvocationKind.AT_MOST_ONCE)
    }
    return when (val value = value as T) {
        null -> this
        else -> runCatching { transform(action) }
    }
}
```
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```kotlin
package kotlin.coroutines

import kotlin.coroutines.intrinsics.*
import kotlin.internal.InlineOnly

/**
 * Interface representing a continuation after a suspension point that returns a value of type `T`.
 */
@SinceKotlin("1.3")
public interface Continuation<in T> {
    /**
     * The context of the coroutine that corresponds to this continuation.
     */
    public val context: CoroutineContext

    /**
     * Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the return value of the last suspension point.
     */
    public fun resumeWith(result: Result<T>)
}

/**
 * Classes and interfaces marked with this annotation are restricted when used as receivers for extension `suspend` functions. These `suspend` extensions can only invoke other member or extension `suspend` functions on this particular receiver and are restricted from calling arbitrary suspension functions.
 */
@SinceKotlin("1.3")
@Target(AnnotationTarget.CLASS)
@Retention(AnnotationRetention.BINARY)
public annotation class RestrictsSuspension

/**
 * Resumes the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun <T> Continuation<T>.resume(value: T): Unit =
    resumeWith(Result.success(value))

/**
 * Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the last suspension point.
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =
    resumeWith(Result.failure(exception))

/**
 * Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun <T> Continuation(
    context: CoroutineContext,
    crossinline resumeWith: (Result<T>) -> Unit
): Continuation<T> =
    object : Continuation<T> {
        override val context: CoroutineContext
            get() = context

        override fun resumeWith(result: Result<T>) =
            resumeWith(result)
    }

/**
 * Starts a coroutine without a receiver and with result type [T].
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <T> (suspend () -> T).startCoroutine(
    completion: Continuation<T>
) {
    createCoroutineUnintercepted(completion).intercepted().resume(Unit)
}

/**
 * Starts a coroutine with receiver type [R] and result type [T].
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <R, T> (suspend R.() -> T).startCoroutine(
    receiver: R,
    completion: Continuation<T>
) {
    createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)
}

/**
 * Obtains the current...
continuation instance inside suspend functions and suspends
* the currently running coroutine.
* In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously
* in a different stack-frame where the suspension function is run or asynchronously later in the same thread or
* from a different thread of execution. Subsequent invocation of any resume function will produce an
[IllegalStateException].
* In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously
* in the same stack-frame where the suspension function is run or asynchronously later in the same thread or
* from a different thread of execution. Subsequent invocation of any resume function will produce an
[IllegalStateException].
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
* Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first
* suspension.
* Returns the result of the coroutine or throws its exception if it does not suspend or
* [COROUTINE_SUSPENDED] if it suspends.
* In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.
* The coroutine is started directly in the invoker's thread 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.
* This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the
* execution of the suspended * coroutine using a reference to the suspending function.
* Returns the result of the coroutine or throws its exception if it does not suspend or
* [COROUTINE_SUSPENDED] if it suspends.
* In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.
* The coroutine is started directly in the invoker's thread 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.
* This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the
* execution of the suspended * coroutine using a reference to the suspending function.
* Returns the result of the coroutine or throws its exception if it does not suspend or
* [COROUTINE_SUSPENDED] if it suspends.
* In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.
* The coroutine is started directly in the invoker's thread 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.
* This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the
* execution of the suspended * coroutine using a reference to the suspending function.
* 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.
* If (this.asDynamic().length == 2) {
* // When `suspended` is true the continuation is created,
but not executed
  this.asDynamic()(completion, true)
} else {
  createCoroutineFromSuspendFunction(completion)
  ()
}

* Creates unintercepted coroutine with receiver type [R] and result type [T].
* This function creates a new, fresh instance of suspended 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.
* 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.

/**
 * Creates unintercepted coroutine with receiver type [R] and result type [T].
 * This function creates a new, fresh instance of suspended 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.
* 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.
according to the IEEE 754 floating-point `double format` bit layout.

*\@SinceKotlin("1.2\")@\library("\doubleToBits\")\public actual fun Double.toBits(): Long = definedExternally\n  */
@\SinceKotlin("1.2\")@\library("\doubleToRawBits\")\public actual fun Double.toRawBits(): Long = definedExternally\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 */
@\SinceKotlin("1.2\")@\library("\doubleToBits\")\public actual fun Double.toBits(): Long = definedExternally\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 */
@\SinceKotlin("1.2\")@\library("\doubleToRawBits\")\public actual fun Double.toRawBits(): Long = definedExternally\n
/**
 * Returns the [Double] value corresponding to a given bit representation.\n */
@SinceKotlin("1.2")
@library("doubleToBits")
public actual fun Double.toBits(): Long = definedExternally

/**
 * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point `single format` bit layout,\n * preserving `NaN` values exact layout.\n * Note that in Kotlin/JS [Float] range is wider than `single format` bit layout can represent,\n * so some [Float] values may overflow, underflow or lose their accuracy after conversion to bits and back.\n */
@SinceKotlin("1.2")
@library("floatToBits")
public actual fun Float.toBits(): Int = definedExternally\n
/**
 * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point `single format` bit layout,\n * preserving `NaN` values exact layout.\n * Note that in Kotlin/JS [Float] range is wider than `single format` bit layout can represent,\n * so some [Float] values may overflow, underflow or lose their accuracy after conversion to bits and back.\n */
@SinceKotlin("1.2")
@library("floatToRawBits")
public actual fun Float.toRawBits(): Int = definedExternally

/**
 * Returns the [Float] value corresponding to a given bit representation.\n */
@SinceKotlin("1.2")
@kotlin.internal.InlineOnly

/**
 * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point `single format` bit layout,\n * preserving `NaN` values exact layout.\n * Note that in Kotlin/JS [Float] range is wider than `single format` bit layout can represent,\n * so some [Float] values may overflow, underflow or lose their accuracy after conversion to bits and back.\n */
@SinceKotlin("1.2")
@library("floatToBits")
public actual fun Float.toBits(): Int = definedExternally

/**
 * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point `single format` bit layout,\n * preserving `NaN` values exact layout.\n * Note that in Kotlin/JS [Float] range is wider than `single format` bit layout can represent,\n * so some [Float] values may overflow, underflow or lose their accuracy after conversion to bits and back.\n */
@SinceKotlin("1.2")
@library("floatToRawBits")
public actual fun Float.toRawBits(): Int = definedExternally

/**
 * Returns the [Float] value corresponding to a given bit representation.\n */
@SinceKotlin("1.2")
@kotlin.internal.InlineOnly
public actual inline fun Float.Companion.fromBits(bits: Int): Float = js("Kotlin").floatFromBits(bits).unsafeCast<Float>()

internal inline fun Long(low: Int, high: Int) = js("Kotlin").Long.fromBits(low, high).unsafeCast<Long>()
internal inline val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()
internal inline val Long.high: Int get() = this.asDynamic().getHighBits().unsafeCast<Int>()

/**
 * Converts a long to its string representation in the specified radix.\n * @throws IllegalArgumentException when radix is not a valid radix\n * @sample samples.collections.Collections.Elements.toString\n */
@SinceKotlin("1.2")
public actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))

/**
 * Reverses elements in the list in-place.
 */
public actual fun <T> MutableList<T>.reverse(): Unit {
    val midPoint = (size / 2) - 1
    if (midPoint < 0) return
    var reverseIndex = lastIndex
    for (index in 0..midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/**
 * Returns an element at the given index or throws an IndexOutOfBoundsException if the index\n * is out of bounds of this char sequence.\n * @sample samples.collections.Collections.Elements.elementAt\n */
public actual fun CharSequence.elementAt(index: Int): Char {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index") }
}

/**
 * Returns an element at the given index or throws an IndexOutOfBoundsException if the index\n * is out of bounds of this char sequence.\n * @sample samples.collections.Collections.Elements.elementAt\n */
public actual fun CharSequence.elementAtAt(index: Int): Char {
    val returnElementAtOrElse = IndexOutOfBoundsException("index: $index") \n    return returnElementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index") }
}

//
// NOTE: THIS FILE IS AUTO-GENERATED\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//

import \kotlin.js.*\nimport \kotlin.ranges.contains\nimport \kotlin.ranges.reversed

/**
 * Converts a long to its string representation in the specified radix.\n */
@SinceKotlin("1.2")
public actual fun Long.toString(radix: Int): String = this[index] = this[reverseIndex]
this[reverseIndex] = tmp
return reverseIndex-\n
an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UIntArray.asList(): List<UInt> {
    return object : AbstractList<UInt>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UInt): Boolean = this@asList.contains(element)
        override fun get(index: Int): UInt {
            return this@asList.elementAt(index)!
        }
        override fun indexOf(element: UInt): Int {
            return this@asList.indexOf(element)!
        }
        override fun lastIndexOf(element: UInt): Int {
            return this@asList.lastIndexOf(element)!
        }
    }
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun ULongArray.asList(): List<ULong> {
    return object : AbstractList<ULong>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: ULong): Boolean = this@asList.contains(element)
        override fun get(index: Int): ULong {
            return this@asList.elementAt(index)!
        }
        override fun indexOf(element: ULong): Int {
            return this@asList.indexOf(element)!
        }
        override fun lastIndexOf(element: ULong): Int {
            return this@asList.lastIndexOf(element)!
        }
    }
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UByteArray.asList(): List<UByte> {
    return object : AbstractList<UByte>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UByte): Boolean = this@asList.contains(element)
        override fun get(index: Int): UByte {
            return this@asList.elementAt(index)!
        }
        override fun indexOf(element: UByte): Int {
            return this@asList.indexOf(element)!
        }
        override fun lastIndexOf(element: UByte): Int {
            return this@asList.lastIndexOf(element)!
        }
    }
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public actual fun UShortArray.asList(): List<UShort> {
    return object : AbstractList<UShort>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UShort): Boolean = this@asList.contains(element)
        override fun get(index: Int): UShort {
            return this@asList.elementAt(index)!
        }
        override fun indexOf(element: UShort): Int {
            return this@asList.indexOf(element)!
        }
        override fun lastIndexOf(element: UShort): Int {
            return this@asList.lastIndexOf(element)!
        }
    }
}
```
as Any?) != UShort) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

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 * license/LICENSE.txt file.
 */

package kotlin.js

import kotlin.annotation.AnnotationTarget.*

@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, VALUE_PARAMETER, PROPERTY_GETTER, PROPERTY_SETTER)
@Deprecated("Use `external` modifier instead", level = DeprecationLevel.ERROR)
public annotation class native(public val name: String = "")

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeGetter

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeSetter

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeInvoke

@Target(CLASS, FUNCTION, PROPERTY)
internal annotation class library(public val name: String = ")

/**
 * Denotes an `external` declaration that must be imported
 * from native JavaScript library.
 *
 * The compiler produces the code relevant for the target module system, for
 * example, in case of CommonJS, it will import the declaration via the `require()` function.
 * 
 * You can put `@JsName("")` on functions you want to be available from JavaScript.
 * 
 * For some reason you want to rename declaration, e.g. there's common term in JavaScript
 * for a concept provided by the declaration, which in uncommon in Kotlin.
 * 
 * You can use `@JsName("")` on functions you want to be available from JavaScript.
 * 
 * In case of CommonJS, it will import the declaration via the `require()` function.
 * 
 * The compiler produces mangled names for functions with parameters, which is unnatural for usual JavaScript developer.
 * 
 * You can put `@JsName("")` on functions you want to be available from JavaScript.
 * 
 * In case of CommonJS, it will import the declaration via the `require()` function.
 * 
 * The
annotation can be used on top-level external declarations (classes, properties, functions) and files.

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.

Example:\n
```kotlin
@JsModule("jquery")
external abstract class JQuery() {
    // some declarations here\n
    external fun JQuery(element: Element): JQuery
}
```

@property import name of a module to import declaration from.

It is not interpreted by the Kotlin compiler, it's passed as is directly to the target module system.

In case of file (which can't be `external`) the following rule applies: all the declarations in \n
By applying `@JsModule` annotation you can make a declaration unavailable to *plain* module system.

Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available as an npm package.

To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation.

For example:

```kotlin
@JsModule("jquery")
@JsNonModule
external abstract class JQuery() {
    // some declarations here
}
```

Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$0.f`.

It must be a sequence of valid JavaScript identifiers separated by the `.` character.

Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$0.f`.

It must be a sequence of valid JavaScript identifiers separated by the `.` character.

Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$0.f`.

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*/

// these are used in common generated code in stdlib

// TODO: find how to deprecate these

@Target(AnnotationTarget.FIELD)
@Retention(AnnotationRetention.SOURCE)
public actual annotation class Volatile

@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)
@Retention(AnnotationRetention.RUNTIME)
@RequiresOptIn(level = RequiresOptIn.Level.WARNINGS)
@SinceKotlin("1.3")
public annotation class ExperimentalJsExport\n
*Exports top-level declaration.*

*Used in future IR-based backend.*

*Has no effect in current JS backend.*

*Exports top-level declaration.*

*Used in future IR-based backend.*

*Has no effect in current JS backend.*

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*/

// these are used in common generated code in stdlib
remove() {  in check(last != -1) { "Call next() or previous() before removing element from the iterator." }  in removeAt(last) {  in index = last  in last = -1  in }  in /**/ * Implementation of 'MutableListIterator' for abstract lists. */  in private inner class ListIteratorImpl(index: Int) : IteratorImpl(), MutableListIterator<E> {  in init {  in AbstractList.checkPositionIndex(index,  in this@AbstractMutableList.size)  in this.index = index  in }  in override fun hasPrevious() {  in Boolean = index > 0  in override fun nextIndex(): Int = index++  in }  in override fun previous(): E {  in if (!hasPrevious()) throw NoSuchElementException()  in last = --index  in return get(last)  in }  in override fun previousIndex(): Int = index - 1  in override fun add(element: E, index: Int, element: E) {  in }  in override fun set(element: E) {  in check(last != -1) { "Call next() or previous() before updating element value with the iterator." }  in this@AbstractMutableList[last] = element  in }  in private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) : AbstractMutableList<E>(), RandomAccess {  in private var _size: Int = 0  in init {  in AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)  in this._size = toIndex - fromIndex  in }  in override fun add(index: Int, element: E) {  in list.add(fromIndex + index, element)  in _size++  in }  in override fun get(index: Int): E {  in AbstractList.checkElementIndex(index, _size)  in return list[fromIndex + index]  in }  in override fun removeAt(index: Int): E {  in AbstractList.checkElementIndex(index, _size)  in val result = list.removeAt(fromIndex + index)  in _size--  in return result  in }  in override fun set(index: Int, element: E): E {  in }  in override val size: Int get() = _size  in }  in /*
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 */  in /*
 * Based on GWT AbstractMap
 * Copyright 2007 Google Inc.
 */  in package kotlin.collections
  in /**
   * Provides a skeletal implementation of the [MutableMap] interface. 
   * @param K the type of map keys. The map is invariant on its key type. 
   * @param V the type of map values. The map is invariant on its value type.
   */  in public actual abstract class AbstractMutableMap<K, V> {  in protected actual constructor(): AbstractMap<K, V>(), MutableMap<K, V> { }  in /**/ * A mutable [Map.Entry] shared by several [Map] implementations. */  in intern open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {  in constructor(entry: Map.Entry<K, V>) {  in this(entry.key, entry.value)  in }  in private var _value = value  in override val value: V get() = _value  in override fun setValue(newValue: V): V {  in val oldValue = this._value  in this._value = newValue  in return oldValue  in }  in override fun hashCode(): Int = entryHashCode(this)  in override fun equals(other: Any?): Boolean = entryEquals(this, other)  in override fun toString(): String = entryToString(this)  in }  in override fun clear() {  in this@AbstractMutableMap.clear()  in }  in override operator fun contains(element: K): Boolean = containsKey(element) {  in Boolean = containsKey(element)  in override operator fun contains(element: K): Boolean {  in return true  in }  in override fun containsValue(value: Int) {  in this@AbstractMutableMap.containsValue(value) {  in return true  in }  in override fun containsKey(key: K, value: V) {  in }  in actual abstract override fun putAll(from: Map<out K, V>) {  in }  in override fun putAll(element: K): Boolean {  in if (containsKey(element)) {  in this@AbstractMutableMap.remove(element)  in return false  in }  in override fun remove(element: K): Boolean {  in this@AbstractMutableMap.remove(element)  in return true  in }  in actual abstract override fun putAll(from: Map<out K, V>) {  in for ((key, value) in from) {  in put(key, value)  in }  in }  in

Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6198
private var _values: MutableCollection<V>? = null

actual override val values: MutableCollection<V>
    get() {
        if (_values == null) {
            _values = object : AbstractMutableMap.clear() override fun add(element: V): Boolean = throw UnsupportedOperationException("Add is not supported on values")
            override fun clear() = this@AbstractMutableMap.clear()
            override fun contains(element: V): Boolean = containsValue(element)
            override operator fun iterator(): MutableListIterator<V> = iterator()
            override fun remove(key: K): V? {
                val iter = entries.iterator()
                while (iter.hasNext()) {
                    val entry = iter.next()
                    val k = entry.key
                    if (key == k) {
                        val value = entry.value
                        iter.remove()
                        return value
                    }
                }
                return null
            }

            override fun trimToSize() {}
            override fun ensureCapacity(minCapacity: Int) {}

            actual override fun remove(key: K): V? {
                val iter = entries.iterator()
                while (iter.hasNext()) {
                    val entry = iter.next()
                    val k = entry.key
                    if (key == k) {
                        val value = entry.value
                        iter.remove()
                        return value
                    }
                }
                return null
            }

            override fun equals(other: Any?): Boolean {
                if (this === other) return true
                if (other !is Collection<*>) return false
                return AbstractList.orderedEquals(this, other)
            }

            override fun hashCode(): Int = AbstractList.orderedHashCode(this)
        }
        return _values!!
    }

override val iterator = entries.iterator()

override fun remove() = entryIterator.remove()
fun addAll(elements: Collection<E>): Boolean {
        if (elements.isEmpty()) return false
        array += elements.toTypedArray<Any?>()
        if (array.size > return false)
        array = array.copyOfRange(0, index).asDynamic().splice(index, 1)
        return true
    }

    actual override fun addAll(index: Int, elements: Collection<E>): Boolean {
        insertionRangeCheck(index)
        if (elements.isEmpty()) return false
        when (index) {
            size -> return addAll(elements)
            0 -> array = elements.toTypedArray<Any?>() + array
            else -> array = array.copyOfRange(0, index).asDynamic().splice(index, 1)
        }
        return true
    }

    actual override fun removeAt(index: Int): E {
        rangeCheck(index)
        return if (index == lastIndex)
            array.asDynamic().pop()
        else
            array.asDynamic().splice(index, 1)[0]
    }

    actual override fun remove(element: E): Boolean {
        for (index in array.indices)
            if (array[index] == element) {
                array.asDynamic().splice(index, 1)
                return true
            }
        return false
    }

    override fun removeRange(fromIndex: Int, toIndex: Int) {
        array.asDynamic().splice(fromIndex, toIndex - fromIndex)
    }

    actual override fun clear() {
        array = emptyArray()
    }

    actual override fun indexOf(element: E): Int = array.indexOf(element)

    actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)

    override fun toString() = arrayToString(array)

    override fun toArray(): Array<Any?> = js("[]").slice.call(array)
}

private fun rangeCheck(index: Int) = index.apply {
    AbstractList.checkElementIndex(index, size)
}

private fun insertionRangeCheck(index: Int) = index.apply {
    AbstractList.checkPositionIndex(index, size)
}

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 */

package kotlin.collections

internal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {
    if (getStableSortingIsSupported())
        array.asDynamic().sort(comparison)
    else
        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))
}

internal fun <T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {
    if (getStableSortingIsSupported())
        array.asDynamic().sort(comparator)
    else
        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)
}

internal fun <T : Comparable<T>> sortArray(array: Array<out T>) {
    if (getStableSortingIsSupported())
        array.asDynamic().sort(naturalOrder())
    else
        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())
}

private var _stableSortingIsSupported: Boolean? = null
private fun getStableSortingIsSupported(): Boolean {
    _stableSortingIsSupported?.let { return it }
    _stableSortingIsSupported = false

    val array = js("[]").unsafeCast<Array<Int>()
    // known implementations may use stable sort for arrays of up to 512 elements
    // so we create slightly more elements to test stability
    for (index in 0 until 600)
        array[index] = index
    val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }
    array.sort(comparison)
    for (index in 1 until array.size)
        if ((array[index - 1] and 3) == (array[index] and 3) && array[index - 1] >= array[index])
            return false

    return true
}

    if (start == end)
        return array
    val median = (start + end) / 2
    val left = mergeSort(array, buffer, start, median, comparator)
    val right = mergeSort(array, buffer, median + 1, end, comparator)
    val result = if (left === buffer)
        Array<T>(array)
    else
        mergeSort(array, buffer, start, end, comparator)
}

// Both start and end are inclusive indices.
private fun <T> mergeSort(array: Array<T>, buffer: Array<T>, start: Int, end: Int): Array<T> {
    if (result != array)
        forEachIndexed(1, list, comparator)
        if (result != array)
            return result
    return mergeSort(array, buffer, start, end, comparator)
}

// Merge
var leftIndex = start
var rightIndex = median + 1
for (i in start..end)
    if (left <= median && rightIndex <= end)
        leftIndex = median & rightIndex <= end
    else
        rightIndex++

    target[i] = leftValue
    rightIndex++

        } else
            target[i] = rightValue
target[i] = left[leftIndex]
leftIndex++
} else /* rightIndex <= end */ -> {
    target[i] = right[rightIndex]
rightIndex++
    Unit // TODO: Fix KT-31506
}
}

return target
}

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 * license/LICENSE.txt file.
 */

package

import

public actual open class HashMap<K, V> : AbstractMutableMap<K, V>,
      MutableMap<K, V> {

    private inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {

        override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not
supported on entries")
        override fun clear() {
            this@HashMap.clear()
        }

        override operator fun contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)

        override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()

        override fun remove(element: MutableEntry<K, V>): Boolean {
            if (contains(element)) {
                this@HashMap.remove(element.key)
                return true
            }
            return false
        }

        override val size: Int get() = this@HashMap.size
    }

    /**
     * Internal implementation of the map: either string-based or hashcode-based.
     */
    private val internalMap: InternalMap<K, V>

    private val equality:

    internal constructor(internalMap: InternalMap<K, V>) : super() {
        this.internalMap
        this.equality = internalMap.equality
    }

    actual constructor() : this() {
        // This implementation of HashMap has no need of load factors or capacities.
        require(require(initialCapacity >= 0) { "Negative initial capacity: $initialCapacity" })
        require(loadFactor >= 0) { "Non-positive load factor: $loadFactor" }
        this(initialCapacity, 0.0f)
        Constructs an empty [HashMap] instance.
        * Constructs an empty [HashMap] instance.
        * @param initialCapacity the initial capacity (ignored)
        * @param loadFactor the load factor (ignored)
        * @throws IllegalArgumentException if the initial capacity or load factor are negative
        @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
        actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : this() {
            // This implementation of HashMap has no need of load factors or capacities.
            require(initialCapacity >= 0) { "Negative initial capacity: $initialCapacity" }
class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {

    private var _entries: MutableList<MutableMap.MutableEntry<K, V>>? = null
    override val entries: MutableList<MutableMap.MutableEntry<K, V>>
        get() {
            if (_entries == null) {
                _entries = createEntrySet()
            }
            return _entries!!
        }

    protected open fun createEntrySet(): MutableList<MutableMap.MutableEntry<K, V>> = EntrySet()

    override operator fun get(key: K): V? = internalMap.get(key)

    override fun put(key: K, value: V): V? = internalMap.put(key, value)

    override fun remove(key: K): V? = internalMap.remove(key)

    override val size: Int get() = internalMap.size

    /**
     * Creates a new empty [HashSet].
     */
    constructor() {
        map = HashMap<E, Any>()
    }

    /**
     * Constructs a new [HashSet] filled with the elements of the specified collection.
     */
    constructor(elements: Collection<E>) {
        map = HashMap<E, Any>(elements.size)
        addAll(elements)
    }

    /**
     * Constructs a new empty [HashSet].
     *
     * @param  initialCapacity the initial capacity
     * @param  loadFactor      the load factor (ignored)
     *
     * @throws IllegalArgumentException if the initial capacity or load factor are negative
     */
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    constructor(initialCapacity: Int, loadFactor: Float = 0.0f) {
        map = HashMap<E, Any>(initialCapacity, loadFactor)
    }

    constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)

    internal constructor(map: HashMap<E, Any>) {
        this.map = map
    }

    override fun add(element: E): Boolean {
        val old = map.put(element, this)
        return old == null
    }

    override fun clear() {
        map.clear()
    }

    override operator fun contains(element: E): Boolean = map.containsKey(element)

    override fun isEmpty(): Boolean = map.isEmpty()

    override fun iterator(): Iterator<E> = map.keys.iterator()

    override fun remove(element: E): Boolean = map.remove(element) != null

    override val size: Int get() = map.size

    /**
     * Creates a new instance of the specialized implementation of [HashSet] with the specified [String] elements,
     * which elements the keys as properties of JS object without hashing them.
     */
    public fun stringSetOf(vararg elements: String): HashSet<String> {
        return HashSet(map)
    }

    /**
     * A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any
     * key type.
     */
    internal class InternalMap<K, V>(@param loadFactor the load factor (ignored))

    /**
     * A key's hashCode is the index in backingMap which should contain that key.
     * Since several keys may have the same hash, each value in hashCodeMap is actually an array containing all
     * entries whose key shares the same hash.
     */
    internal class InternalMap<K, V>(equality: EqualityComparator) : InternalMap<K, V> {

        private var _entries: MutableList<MutableMap.MutableEntry<K, V>>? = null
        override val entries: MutableList<MutableMap.MutableEntry<K, V>>
            get() {
                if (_entries == null) {
                    _entries = createEntrySet()
                }
                return _entries!!
            }

        protected open fun createEntrySet(): MutableList<MutableMap.MutableEntry<K, V>> = EntrySet()

        override operator fun get(key: K): V? = internalMap.get(key)

        override fun put(key: K, value: V): V? = internalMap.put(key, value)

        override fun remove(key: K): V? = internalMap.remove(key)

        override val size: Int get() = internalMap.size

    }

    /**
     * Constructs the specialized implementation of [HashMap] with [String] keys, which stores the keys as properties of
     * JS object without hashing them.
     */
    public fun stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {
        return HashMap(map)
    }
}

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 */
/*
 * Based on GWT HashSet
 * Copyright 2008 Google Inc.
 */

package kotlin.collections

/**
 * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.
 * *public function <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {
 *     return HashMap{<V>map{<String, <V>}.apply {<V>putAll(pairs)});}
 */

open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {

    private val map: HashMap<E, Any>

    /**
     * Constructs a new empty [HashSet].
     */
    constructor() {
        map = HashMap<E, Any>()
    }

    /**
     * Constructs a new [HashSet] filled with the elements of the specified collection.
     */
    constructor(elements: Collection<E>) {
        map = HashMap<E, Any>(elements.size)
        addAll(elements)
    }

    /**
     * Constructs a new empty [HashSet].
     *
     * @param  initialCapacity the initial capacity
     * @param  loadFactor      the load factor (ignored)
     *
     * @throws IllegalArgumentException if the initial capacity or load factor are negative
     */
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    constructor(initialCapacity: Int, loadFactor: Float = 0.0f) {
        map = HashMap<E, Any>(initialCapacity, loadFactor)
    }

    constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)

    internal constructor(map: HashMap<E, Any>) {
        this.map = map
    }

    override fun add(element: E): Boolean {
        val old = map.put(element, this)
        return old == null
    }

    override fun clear() {
        map.clear()
    }

    override operator fun contains(element: E): Boolean = map.containsKey(element)

    override fun isEmpty(): Boolean = map.isEmpty()

    override fun iterator(): Iterator<E> = map.keys.iterator()

    override fun remove(element: E): Boolean = map.remove(element) != null

    override val size: Int get() = map.size

}
package kotlin.collections

/**
 * The common interface of [InternalStringMap] and
 * [InternalHashCodeMap].
 */
internal interface InternalMap<K, V> :
    MutableIterable<MutableMap.MutableEntry<K, V>> {
    val equality: EqualityComparator
    val size: Int

    operator fun contains(key: K): Boolean
    operator fun get(key: K): V?

    fun put(key: K, value: V): V?
    fun remove(key: K): V?
    fun clear(): Unit

    fun createJsMap(): dynamic {
        val result = 
            js("Object.create(null)\n" // force to switch object representation to dictionary mode
        )
        return result
    }
}

open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {
    override val equality: EqualityComparator = this

    override fun get(key: K): V? {
        return backingMap[key] ?: null
    }

    override val size: Int = backingMap.size

    override fun put(key: K, value: V): V? {
        // Add a new element to the map
        val oldValue = backingMap[key]
        // Update the value in the map
        backingMap[key] = value
        // Return the old value if it exists
        return oldValue
    }

    override fun remove(key: K): V? {
        // Remove an element from the map
        val oldValue = backingMap[key]
        // Update the value in the map
        backingMap[key] = null
        // Return the old value if it exists
        return oldValue
    }

    override fun clear() {
        // Clear all elements from the map
        backingMap.clear()
    }

    override fun iterator(): Iterator<MutableMap.MutableEntry<K, V>> {
        return object : Iterator<MutableMap.MutableEntry<K, V>> {
            private val keys = backingMap.keys
            private var index = 0

            override fun hasNext(): Boolean = index < keys.size

            override fun next(): MutableMap.MutableEntry<K, V> {
                val key = keys[index]
                index++
                return backingMap[key] as MutableMap.MutableEntry<K, V>
            }

            override fun remove() {
                backingMap.remove(keys[index-1])
                index--
            }
        }
    }

    override fun containsKey(key: K): Boolean {
        return backingMap.containsKey(key)
    }

    override fun containsValue(value: V): Boolean {
        return backingMap.containsValue(value)
    }
}

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 */
/*
 * Based on GWT LinkedHashSet
 * Copyright 2008 Google Inc.
 */
package kotlin.collections

class LinkedHashSet<K>(private val equality: EqualityComparator) : InternalMap<K, V> {
    private val set = HashSet<K>()

    override val size: Int = set.size

    override fun contains(key: K): Boolean {
        return set.contains(key)
    }

    override fun get(key: K): V? {
        return set[key] as V?
    }

    override fun put(key: K, value: V): V? {
        return set.put(key, value)
    }

    override fun remove(key: K): V? {
        return set.remove(key)
    }

    override fun clear() {
        set.clear()
    }

    override fun createJsMap(): dynamic {
        val result = js("Object.create(null)\n" // force to switch object representation to dictionary mode
        )
        return result
    }
}

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 */
/*
 * Based on GWT linkedList
 * Copyright 2008 Google Inc.
 */
package kotlin.collections

class LinkedList<K>(private val equality: EqualityComparator) : InternalMap<K, V> {
    private val list = LinkedList()

    override val size: Int = list.size

    override fun contains(key: K): Boolean {
        return list.contains(key)
    }

    override fun get(key: K): V? {
        return list[key] as V?
    }

    override fun put(key: K, value: V): V? {
        return list.put(key, value)
    }

    override fun remove(key: K): V? {
        return list.remove(key)
    }

    override fun clear() {
        list.clear()
    }

    override fun createJsMap(): dynamic {
        val result = js("Object.create(null)\n" // force to switch object representation to dictionary mode
        )
        return result
    }
}
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 private class
ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n
internal var
next: ChainEntry<K, V>? = null\n
internal var prev: ChainEntry<K, V>? = null\n }\n\n private inner class
EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\n\n
private inner class EntryIterator :
MutableIterator<MutableEntry<K, V>> {\n
// The last entry that was returned from this iterator.\n
private var last: ChainEntry<K, V>? = null\n\n
// The next entry to return from this iterator.\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
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
check(last != null)\n//
checkStructuralChange(map, this)\n\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
override fun clear() {\n
this@LinkedHashMap.clear()\n
}\n\n
override operator fun
contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\n\n
override operator fun iterator():
MutableIterator<MutableEntry<K, V>> = EntryIterator()\n\n
override fun remove(element: MutableEntry<K,
V>): Boolean {\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\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 private var head: ChainEntry<K, V>?
= null\n\n /**\n * Add this node to the end of the chain.\n */\n private fun ChainEntry<K, V>.addToEnd()
{\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 private fun
ChainEntry<K, V>.remove() {\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 /*\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 /**\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

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instance of [LinkedHashMap] filled with the contents of the specified [original] map.

actual constructor(original: Map<out K, V>?) {
    map = HashMap<K, ChainEntry<K, V>>()
    this.putAll(original)
    head = null
    actual override fun clear() {
        map.clear()
        head = null
        chainEntries.add(ChainEntry(head))
    }

    actual override fun containsKey(key: K): Boolean = map.containsKey(key)

    actual override fun containsValue(value: V): Boolean {
        var node = head
        do {
            if (node.value == value) {
                return true
            }
            node = node.next!!
        } while (node !== head)
        return false
    }

    override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()

    actual override operator fun get(key: K): V? = map.get(key)?.value

    actual override fun put(key: K, value: V): V? {
        val old = map.get(key)
        if (old == null) {
            val newEntry = ChainEntry(key, value)
            map.put(key, newEntry)
            newEntry.addToEnd()
            return null
        } else {
            return old.setValue(value)
        }
    }

    actual override fun remove(key: K): V? {
        val entry = map.remove(key)
        if (entry != null) {
            entry.remove()
            return entry.value
        }
        return null
    }

    actual override val size: Int get() = map.size

}

/**
 * Constructs the specialized implementation of [LinkedHashMap] with [String] keys, which stores the keys as properties of JS object without hashing them.
 */
public fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {
    return LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }
}

/**
 * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified [String] elements, which elements the keys as properties of JS object without hashing them.
 */
public fun linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {
    return LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }
}
override fun print(message: Any?) {
    // TODO: Using local variable because of bug in block decomposition lowering in IR backend
    val messageString = String(message)
    outputStream.write(messageString)
}

/** JsName used to make the declaration available outside of module to test it */
@JsName("OutputToConsoleLog")
internal class OutputToConsoleLog : BaseOutput() {
    override fun print(message: Any?) {
        console.log(message)
    }

    override fun println(message: Any?) {
        console.log(message + "\n")
    }
}

/** JsName used to make the declaration available outside of module to test it */
@JsName("BufferedOutputToConsoleLog")
internal class BufferedOutputToConsoleLog : BufferedOutput() {
    override fun print(message: Any?) {
        var s = String(message)
        val i = s.nativeLastIndexOf("\n", 0)
        if (i >= 0) {
            buffer += s.substring(0, i)
            flush()
            s = s.substring(i + 1)
        }
        buffer += s
    }

    override fun flush() {
        console.log(buffer)
        buffer = ""
    }
}

/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */
@JsName("output")
internal var output = run {
    val isNode = js("typeof process !== 'undefined' && process.versions && !!process.versions.node")
    if (isNode) NodeJsOutput(js("process.stdout")) else BufferedOutputToConsoleLog()
}

/** Prints the line separator to the standard output stream. */
public actual fun println() {
    output.println()
}

/** Prints the given [message] and the line separator to the standard output stream. */
public actual fun println(message: Any?) {
    output.println(message)
}

/** Prints the given [message] to the standard output stream. */
public actual fun println(message: Any?) {
    output.println(message)
}

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 */

package kotlin.continuation

import kotlin.coroutines.intrinsics.CoroutineSingletons.*
import kotlin.coroutines.EmptyCoroutineContext

@PublishedApi
@SinceKotlin("1.3")
internal actual class SafeContinuation<in T>
internal actual constructor(
    private val delegate: Continuation<T>,
    initialResult: Any?
) : Continuation<T> {
    internal actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)

    public actual override val context: CoroutineContext
        get() = delegate.context

    private var result: Any? = initialResult

    public actual override fun resumeWith(result: Result<T>) {
        val cur = this.result
        when {
            cur === UNDECIDED -> {
                this.result = result.value
            }
            cur === COROUTINE_SUSPENDED -> {
                this.result = RESUMED
                delegate.resumeWith(result)
            }
            else -> throw IllegalStateException("Already resumed")
        }
    }

    @PublishedApi
    internal actual fun getOrThrow(): Any? {
        if (result === UNDECIDED) {
            result = COROUTINE_SUSPENDED
        }
        val result = when {
            result === UNDECIDED ->
                delegate.resumeWith(RESULT)
                result = RESUMED
            result === COROUTINE_SUSPENDED
                upstream
                result = Result.Failure ->
                throw result.exception
                else -> result
            
        }
        return COROUTINE_SUSPENDED
    }
}

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 */

package kotlin.js

/**
 * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.
*/
@Suppress("NOTDOCUMENTED")
public external class Date() {
    public constructor(milliseconds: Number)
    public constructor(dateString: String)
    public constructor(year: Int, month: Int)
    public constructor(year: Int, month: Int, day: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)
    public fun getDate(): Int
    public fun getDay(): Int
    public fun getFullYear(): Int
    public fun getHours(): Int
    public fun getMilliseconds(): Int
    public fun getMinutes(): Int
    public fun getMonth(): Int
    public fun getSeconds(): Int
    public fun getTime(): Double
    public fun getTimezoneOffset(): Int
    public fun getUTCDate(): Int
    public fun getUTCDay(): Int
    public fun getUTCFullYear(): Int
    public fun getUTCHours(): Int
    public fun getUTCMilliseconds(): Int
    public fun getUTCMinutes(): Int
    public fun getUTCMonth(): Int
    public fun getUTCSeconds(): Int
    public fun toDateString(): String
    public fun toISOString(): String
    public fun toJSON(): Json
    public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String
    public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String
    public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String
    public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String
    public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String
    public fun toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String
    public fun toTimeString(): String
    public fun toUTCString(): String
    public companion object {
        public fun now(): Double
        public fun parse(dateString: String): Double
        public fun UTC(year: Int, month: Int): Double
        public fun UTC(year: Int, month: Int, day: Int): Double
        public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double
        public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int): Double
    }
    public interface LocaleOptions {
        public var localeMatcher: String?
        public var timeZone: String?
        public var hour12: Boolean?
        public var formatMatcher: String?
        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.*

/**
 * Creates a new element with the specified [name].
 * The element is initialized with the specified [init] function.
 */
public fun Document.createElement(name: String, init: Element.() -> Unit): Element =
    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.
 */
public fun Element.appendElement(name: String, init: Element.() -> Unit): Element =
    ownerDocument!!.createElement(name, init).also { appendChild(it) }

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 */

package kotlin.dom

import org.w3c.dom.*

/** Returns true if the element has the given CSS class style in its 'class' attribute */
fun Element.hasClass(cssClass: String): Boolean =
    className.matches("""(^|\s+)$cssClass($|\s+\.)""".toRegex())

/**
 * Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element.
 * The element is initialized with the specified [name] to this element.
 * The element is initialized with the specified [init] function.
 */
fun Element.addClass(vararg cssClasses: String): Boolean {
    val missingClasses =
        cssClasses.filterNot { hasClass(it) }
    if (missingClasses.isNotEmpty()) {
        val presentClasses =
            cssClasses.filter { hasClass(it) }
        // Append a newly created element with the specified [name] to this element.
        // The element is initialized with the specified [init] function.
        // The element is initialized with the specified [name] to this element.
        // The element is initialized with the specified [init] function.
    }
}

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 */

package kotlin.dom

import org.w3c.dom.*

fun Document.createTextNode(text: String): Text =
    text
        .toJs"new Object()".unsafeCast<Text>()
        .apply { data = text }
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
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 */

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
}

/**
 * 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: RegexOption): 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)

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin.text

/**
 * A mutable sequence of characters.
 *
 * String builder can be used to efficiently perform multiple string manipulation operations.
 * Construct an empty string builder. *
 * Constructor with the specified initial [capacity]. *
 * Constructor with the specified [options]. *
 * Constructor that contains the same characters as the specified [content] char sequence. *
 * Constructor that contains the same characters as the specified [content] string. *
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

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 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 */

@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: RegexOption): 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)

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin.text

/**
 * A mutable sequence of characters.
 *
 * String builder can be used to efficiently perform multiple string manipulation operations.
 * Construct an empty string builder. *
 * Constructor with the specified initial [capacity]. *
 * Constructor with the specified [options]. *
 * Constructor that contains the same characters as the specified [content] char sequence. *
 * Constructor that contains the same characters as the specified [content] string. *
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 * @SinceKotlin("1.3")
 * @ExperimentalStdlibApi
 */
If the `newLength` is less than the current length, it is changed to the specified `newLength`. Otherwise, this method takes no action and simply returns.

Returns `-1` if the specified `string` does not occur in this string builder at the specified `[startIndex]`.

Returns `-1` if the specified `string` is empty (`""`).

Inserts the representation of the specified boolean `value` into this string builder at the specified `[startIndex]` and returns this instance.

The overall effect is exactly as if the `value` was converted to a boolean by the `value.toString()` method, and then that string was inserted into this string builder at the specified `[startIndex]` and returns this instance.

The last occurrence of empty string `""` is considered to be at the index equal to `this.length`. Returns `-1` if the specified `string` does not occur in this string builder.

Inserts characters in the specified character array `value` into this string builder at the specified `[startIndex]` and returns this instance.

The inserted characters go in the same order as in the `value` character array, starting at `[startIndex]`.

Inserts characters in the specified character sequence `value` into this string builder at the specified `[startIndex]` and returns this instance.

The inserted characters go in the same order as in the `value` character sequence, starting at `[startIndex]`.

If the current capacity is less than the specified `minimumCapacity`, a new backing storage is allocated with greater capacity. Otherwise, this method takes no action and simply returns.

Returns the index within this string builder of the first occurrence of the specified `string`.

Returns the index within this string builder of the last occurrence of the specified `string`.

The last occurrence of empty string `""` is considered to be at the index equal to `this.length`. Returns `-1` if the specified `string` does not occur in this string builder.

The overall effect is exactly as if the `value` was converted to a string by the `value.toString()` method, and then that string was inserted into this string builder at the specified `[startIndex]` and returns this instance.

The inserted characters go in the same order as in the `value` character sequence, starting at `[startIndex]`.

@throws IndexOutOfBoundsException if `[index]` is less than zero or greater than the length of this string builder.

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@throws IndexOutOfBoundsException if `[index]` is less than zero or greater than the length of this string builder.
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
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
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 @sample samples.text.Strings.clearStringBuilder\n
Sets the character at the specified \[index\] to the specified \[value\]. \n @throws IndexOutOfBoundsException if \[index\] is out of bounds of this string builder. \n
Replaces characters in the specified range of this string builder with characters in the specified \[value\] and returns this instance. \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 @throws IndexOutOfBoundsException or [IllegalArgumentException] if \[startIndex\] is less than zero, greater than the length of this string builder, or \`startIndex > endIndex\`. \n
Removes the character at the specified \[index\] from this string builder and returns this instance. \n @param \[index\] the index of \`Char` to remove. \n @throws IndexOutOfBoundsException or [IllegalArgumentException] when \[index\] is out of range of this string builder indices or when \`startIndex > endIndex\`. \n
Copies characters from this string builder into the \[destination\] character array. \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
Appends characters in a subarray of the specified character array \[value\] to this string builder and returns this instance. \n @param \[value\] Characters are appended in order, starting at specified \[startIndex\]. \n
@param value the array from which characters are appended.
* @param startIndex the beginning (inclusive) of
the subarray to append.
* @param endIndex the end (exclusive) of the subarray to append.
* @throws IndexOutOfBoundsException or [IllegalArgumentOutOfRangeException] when [startIndex] or [endIndex] is out of range of the
[value] array indices or when `startIndex > endIndex`.

/*
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
 */
template:

```java
public open class MyException : Exception {
    constructor() : super()
    constructor(message: String?) : super(message, cause: Throwable?)
    constructor(message: String?, cause: Throwable?): super(message, cause)
    constructor(cause: Throwable?): super(cause)
}

// TODO: remove workarounds for KT-22053 from direct Throwable inheritors
// TODO: remove primary constructors, make all secondary KT-22055

@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")
public actual open class Error {
    constructor(message: String?, cause: Throwable?) : Throwable(message, cause)
    constructor() : this(null, null)
}

@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")
public actual open class Exception {
    constructor(message: String?, cause: Throwable?) : Throwable(message, cause)
    constructor() : this(null, null)
}

public actual open class RuntimeException {
    constructor(message: String?, cause: Throwable?) : Exception(message, cause)
    constructor() : this(null, null)
}

public actual open class IllegalArgumentException {
    constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause)
    constructor() : this(null, null)
}

public actual open class IllegalStateException {
    constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause)
    constructor() : this(null, null)
}

public actual open class IndexOutOfBoundsException {
    constructor(message: String?) : RuntimeException(message)
    constructor() : this(null, null)
}

public actual open class ConcurrentModificationException {
    constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause)
    constructor() : this(null, null)
}

public actual open class UnsupportedOperationException {
    constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause)
    constructor() : this(null, null)
}

public actual open class NumberFormatException {
    constructor(message: String?) : IllegalArgumentException(message)
    constructor() : this(null, null)
}

public actual open class NullPointerException {
    constructor(message: String?) : RuntimeException(message)
    constructor() : this(null, null)
}

public actual open class ClassCastException {
    constructor(message: String?) : RuntimeException(message)
    constructor() : this(null, null)
}

private actual constructor(message: String?, cause: Throwable?) : Error {
    constructor() : this(null)
    constructor(message: String?) : this(message, null)
    actual constructor(cause: Throwable?) : this(cause)
}

public actual open class NoSuchElementException {
    constructor(message: String?) : RuntimeException(message)
    constructor() : this(null)
}

@SinceKotlin("1.3")
public actual open class ArithmeticException {
    constructor(message: String?) : RuntimeException(message)
    constructor() : this(null)
}

public actual open class NoWhenBranchMatchedException {
    constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause)
    constructor() : this(null, null)
}

public actual open class UninitializedPropertyAccessException {
    constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause)
    constructor() : this(null, null)
}
```

Groups elements from the [Grouping] source by key and counts elements in each group.

```kotlin
@SinceKotlin("1.1")
public actual fun <T, K> Grouping<T, K>.eachCount(): Map<K, Int> =
    fold(0) { acc, _ -> acc + 1 }

/*
** Groups elements from the [Grouping] source by key and sums values provided by
* the [valueSelector] function for elements in each group.
** For the list of group-and-fold operations available, see the
** [extension functions] for `Grouping`.
** @param operation a function that is invoked on each element with the following parameters:
* `key`: the key of the group this element belongs to;
* `accumulator`: the current value of the accumulator of the group,
* `element`: the element from the source being aggregated;
* `first`: indicates whether it's the first element encountered in the group.
** @return the [destination] map associating the key of each group with the result of aggregation of
** the group elements.
*/
@SinceKotlin("1.1")
public inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.aggregateTo(
    destination: M,
    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R
): M {
    for (e in this.sourceIterator()) {
        val key = keyOf(e)
        val accumulator = destination[key]
        destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))
    }
    return destination
}
```

Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially.

```kotlin
@SinceKotlin("1.1")
public fun Grouping<T, K>.aggregateByRadix(): Map<K, Int> =
    fold(0) { acc, _ -> acc + 1 }
```

Groups elements from the [Grouping] source by key and counts elements in each group.
arguments, and stores the results in a new map. An initial value of accumulator is provided by
initialValueSelector function. It's invoked with parameters: `key`: the key of the group `element`: the
first element being encountered in that group. It's invoked on each element with the following
parameters: `key`: the key of the group this element belongs to; `accumulator`: the
current value of the accumulator of the group; `element`: the element from the source being accumulated.

@sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue

An initial value of accumulator is provided by initialValueSelector a function that provides an initial value
of accumulator for each group. It's invoked with parameters: `key`: the key of the group `element`: the
first element being encountered in that group. It's invoked on each element with the following
parameters: `key`: the key of the group this element belongs to; `accumulator`: the
current value of the accumulator of the group; `element`: the element from the source being accumulated.

@sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo

An initial value of accumulator is provided by initialValueSelector a function that provides an initial value
of accumulator for each group. It's invoked with parameters: `key`: the key of the group `element`: the
first element being encountered in that group. It's invoked on each element with the following
parameters: `key`: the key of the group this element belongs to; `accumulator`: the
current value of the accumulator of the group; `element`: the element from the source being accumulated.

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current value of the accumulator of the group; `element`: the element from the source being accumulated.

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first element being encountered in that group. It's invoked on each element with the following
parameters: `key`: the key of the group this element belongs to; `accumulator`: the
current value of the accumulator of the group; `element`: the element from the source being accumulated.
@Suppress("UNCHECKED_CAST")
aggregateTo(destination) { _, acc, e, first -> operation(if (first)
initialValue else acc as R, e) }

/**
 * Groups elements from the [Grouping] source by key and applies the reducing [operation] to
 * the elements of each group sequentially starting from the second element of the group,
 * passing the previously accumulated value and the current element as arguments,
 * and stores the results in a new map.
 * An initial value of accumulator is the first element of the group.
 * @param operation a function that is invoked on each subsequent element of the group,
 * with the following parameters:
 * - `key`: the key of the group this element belongs to;
 * - `current`: the current value of the accumulator of the group;
 * - `element`: the element from the source being accumulated.
 * @return a [Map] associating the key of each group with the result of accumulating the group elements.
 * @sample samples.collections.Grouping.reduceByMaxVowels
 */
@SinceKotlin("1.1")
public inline fun <S, T : S, K> Grouping<T, K>.reduceTo(
    destination: Map<K, S>,
    operation: (key: K, accumulator: S, element: T) -> S
): Map<K, S> =
    aggregateTo(destination) { key, acc, e, first ->
        if (first) e else operation(key, acc as S, e)
    }

/**
 * Groups elements from the [Grouping] source by key and applies the reducing [operation] to
 * the elements of each group sequentially starting from the second element of the group,
 * passing the previously accumulated value and the current element as arguments,
 * and stores the results in a new map.
 * An initial value of accumulator is the first element of the group.
 * If the [destination] map already has a value corresponding to
 * the key of some group, that value is used as an initial value of the accumulator for that group and
 * the first element of that group is also subjected to the [operation].
 * If the [destination] map already has a value corresponding to the key of some group,
 * that value is used as an initial value of the counter for that group.
 * @param operation a function that is invoked on each subsequent element of the group,
 * with the following parameters:
 * - `current`: the current value of the accumulator of the group;
 * - `element`: the element from the source being folded.
 * @return the [destination] map associating the key of each group with the result of accumulating the group elements.
 * @sample samples.collections.Grouping.reduceByMaxVowels
 */
@SinceKotlin("1.1")
public fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =
    foldTo(destination, 0) { acc, _ -> acc + 1 }

/*
 * 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.
 */

package kotlin.js

/**
 * Exposes
to Kotlin.
*\n@Deprecated("Use top-level functions from kotlin.math package instead.", level = DeprecationLevel.WARNINGS)
\npublic external object Math {  
    @Deprecated("Use kotlin.math.PI instead.", ReplaceWith("PI", \"kotlin.math.PI\"), level = DeprecationLevel.ERROR)
    public val PI: Double

    @Deprecated("Use kotlin.math.abs instead.", ReplaceWith("abs(value)", \"kotlin.math.abs\"), level = DeprecationLevel.ERROR)
    public fun abs(value: Double): Double

    @PublishedApi
    internal fun trunc(value: Number): Double

    @PublishedApi
    internal fun sinh(value: Double): Double

    @PublishedApi
    internal fun cosh(value: Double): Double

    @PublishedApi
    internal fun tanh(value: Double): Double

    @PublishedApi
    internal fun asinh(value: Double): Double

    @PublishedApi
    internal fun acosh(value: Double): Double

    @PublishedApi
    internal fun atanh(value: Double): Double

    @PublishedApi
    internal fun hypot(x: Double, y: Double): Double

    @PublishedApi
    internal fun expm1(value: Double): Double

    @PublishedApi
    internal fun log10(value: Double): Double

    @PublishedApi
    internal fun log2(value: Double): Double

    @PublishedApi
    internal fun log1p(value: Double): Double

    @PublishedApi
    internal fun clz32(value: Int): Int
}

/**
 * Returns the smaller of two values.

...
/*\n@Suppress("DEPRECATION\")\n@Deprecated("Use minOf or kotlin.math.min instead\", ReplaceWith("minOf(a, b)\t\n"), level = DeprecationLevel.ERROR)\npublic fun Math.min(a: Long, b: Long): Long = if (a <= b) a else b\n*/

/**\n * Returns the greater of two values.\n */
@Suppress("DEPRECATION")\n@Deprecated("Use maxOf or kotlin.math.max instead", ReplaceWith("maxOf(a, b)\t\n"), level = DeprecationLevel.ERROR)\npublic fun Math.max(a: Long, b: Long): Long = if (a >= b) a else b\n
*/
 */
@file:Suppress("DEPRECATION", "DEPRECATION_ERROR")\npackage kotlin.math\n
import kotlin.internal.InlineOnly\nimport kotlin.js.Math as nativeMath\n
// region
================ Double Math ========================================

/** Computes the sine of the angle [x] given in radians.\n * Special cases:\n * - \`\sin(\text{NaN})\` is `\text{NaN}`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Double): Double = nativeMath.sin(x)\n
/** Computes the cosine of the angle [x] given in radians.\n * Special cases:\n * - \`\cos(\text{NaN})\` is `\text{NaN}`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cos(x: Double): Double = nativeMath.cos(x)\n
/** Computes the tangent of the angle [x] given in radians.\n * Special cases:\n * - \`\tan(\text{NaN})\` is `\text{NaN}`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x: Double): Double = nativeMath.tan(x)\n
/** Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `\text{-PI/2}` to `\text{PI/2}` radians.\n * Special cases:\n * - `\text{asin}(\text{NaN})` is `\text{NaN}`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Double): Double = nativeMath.asin(x)\n
/** Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `\text{0.0}` to `\text{PI}` radians.\n * Special cases:\n * - `\text{acos}(\text{NaN})` is `\text{NaN}`\n */
@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acos(x: Double): Double = nativeMath.acos(x)
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acos(x: Double): Double =
nativeMath.acos(x)

/**
 * Computes the inverse hyperbolic sine of the value [x]. * `asinh(NaN)` is `NaN` * `-asinh(0)` is `0`
 * `asinh(x)` is `-ln(x + sqrt(x^2 + 1))`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asinh(x: Double): Double =
nativeMath.asinh(x)

/**
 * Computes the inverse hyperbolic cosine of the value [x]. * `acosh(NaN)` is `NaN` * `acosh(1)` is `0`
 * `acosh(x)` is `ln(x + sqrt(x^2 - 1))`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acosh(x: Double): Double =
nativeMath.acosh(x)

/**
 * Computes the inverse hyperbolic tangent of the value [x]. * `atanh(NaN)` is `NaN` * `-atanh(0)` is `0`
 * `atanh(x)` is `(ln(1 + 1/x) - ln(1 - 1/x)) / 2`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atanh(x: Double): Double =
nativeMath.atanh(x)

/**
 * Computes the square root of the value [x]. * `sqrt(NaN)` is `NaN` * `sqrt(0)` is `0`
 * `sqrt(x)` is `sqrt(x)` for `x` > 0
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sqrt(x: Double): Double =
nativeMath.sqrt(x)

/**
 * Computes Euler's number `e` raised to the power of the value [x]. * `exp(NaN)` is `NaN` * `exp(0)` is `1`
 * `exp(x)` is `exp(x)` for `x` > 0
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun exp(x: Double): Double =
nativeMath.exp(x)
/**
 * 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
 * @see [expm1] function
 */
@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
 * @see [expm1] function
 */
@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.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun ceil(x: Double): Double =
    nativeMath.ceil(x).unsafeCast<Double>()

/**
 * Rounds the given value [x] to an integer towards negative infinity.
 */
@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.
 */
@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.
 */
@SinceKotlin("1.2")
public actual fun round(x: Double): Double =
    if (x % 0.5 != 0.0) {
        nativeMath.round(x).unsafeCast<Double>()
    }
    val floor = floor(x)
    if (floor % 2 == 0.0) floor else ceil(x)

/**
 * Returns the absolute value of the given value [x].
 *
 * Special case:
 *   - `abs(NaN)` is `NaN`
 */
@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,
 *   - zero if the value is zero,
 *   - `1.0` if the value is positive
 *
 * Special case:
 *   - `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

/**
 * 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)

/**
 * 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)

/**
 * 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)
Double.sign: Double get() = nativeMath.sign(this).unsafeCast<Double>()

Double.MAX_VALUE: Double get() = nativeMath.MAX_VALUE

Double.MIN_VALUE: Double get() = nativeMath.MIN_VALUE

Double.MIN_NORMAL: Double get() = nativeMath.MIN_NORMAL

Double.NEGATIVE_INFINITY: Double get() = nativeMath.NEGATIVE_INFINITY

Double.POSITIVE_INFINITY: Double get() = nativeMath.POSITIVE_INFINITY

java.lang.Math

Math.abs: int get(int x) = nativeMath.abs(x)

Math.abs: float get(float x) = nativeMath.abs(x)

Math.abs: long get(long x) = nativeMath.abs(x)

Math.rint: double get(double x) = nativeMath.rint(x)

Math.ceil: double get(double x) = nativeMath.ceil(x)

Math.floor: double get(double x) = nativeMath.floor(x)

Math.rint: float get(float x) = nativeMath.rint(x)

Math.ceil: float get(float x) = nativeMath.ceil(x)

Math.floor: float get(float x) = nativeMath.floor(x)

Math.rint: long get(long x) = nativeMath.rint(x)

Math.ceil: long get(long x) = nativeMath.ceil(x)

Math.floor: long get(long x) = nativeMath.floor(x)

Math.cos: double get(double x) = nativeMath.cos(x)

Math.sin: double get(double x) = nativeMath.sin(x)

Math.tan: double get(double x) = nativeMath.tan(x)

Math.asin: double get(double x) = nativeMath.asin(x)

Math.acos: double get(double x) = nativeMath.acos(x)

Math.atan: double get(double x) = nativeMath.atan(x)

Math.acosh: double get(double x) = nativeMath.acosh(x)

Math.asinh: double get(double x) = nativeMath.asinh(x)

Math.atanh: double get(double x) = nativeMath.atanh(x)

Math.cosh: double get(double x) = nativeMath.cosh(x)

Math.sinh: double get(double x) = nativeMath.sinh(x)

Math.tanh: double get(double x) = nativeMath.tanh(x)

Math.toDegrees: double get(double x) = nativeMath.toDegrees(x)

Math.toRadians: double get(double x) = nativeMath.toRadians(x)

Math.toRadians: float get(float x) = nativeMath.toRadians(x)

Math.toDegrees: float get(float x) = nativeMath.toDegrees(x)

Math.toRadians: long get(long x) = nativeMath.toRadians(x)

Math.toDegrees: long get(long x) = nativeMath.toDegrees(x)

Math.abs: long get(long x) = nativeMath.abs(x)

Math.ceil: long get(long x) = nativeMath.ceil(x)

Math.floor: long get(long x) = nativeMath.floor(x)

Math.max: long get(long x, long y) = nativeMath.max(x, y)

Math.min: long get(long x, long y) = nativeMath.min(x, y)

Math.pow: double get(double x, double y) = nativeMath.pow(x, y)

Math.sqrt: double get(double x) = nativeMath.sqrt(x)

Math.sinh: double get(double x) = nativeMath.sinh(x)

Math.cosh: double get(double x) = nativeMath.cosh(x)

Math.tanh: double get(double x) = nativeMath.tanh(x)

Math.asinh: double get(double x) = nativeMath.asinh(x)

Math.acosh: double get(double x) = nativeMath.acosh(x)

Math.atan2: double get(double x, double y) = nativeMath.atan2(x, y)

Math.toDegrees: double get(double x) = nativeMath.toDegrees(x)

Math.toRadians: double get(double x) = nativeMath.toRadians(x)

Math.toDegrees: float get(float x) = nativeMath.toDegrees(x)

Math.toRadians: float get(float x) = nativeMath.toRadians(x)

Math.toDegrees: long get(long x) = nativeMath.toDegrees(x)

Math.toRadians: long get(long x) = nativeMath.toRadians(x)
is an angle in the range from `-PI/2` to `PI/2` radians.

- `atan(NaN)` is `NaN`
- Special cases:

  * 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, x)` is 0.0 for `x > 0` and `-PI` for `x < 0`.
    * `atan2(-0.0, x)` is `+PI` for `x > 0` and `-0.0` for `x < 0`.
    * `atan2(0.0, 0.0)` is `+0.0` for `y > 0` and `-0.0` for `y < 0`.
    * `atan2(y, +Inf)` is `+PI` for `y > +0.0` and `-0.0` for `y < 0`.
    * `atan2(y, -Inf)` is `+0.0` for `y > -0.0` and `-PI` for `y < -0.0`.

```kotlin
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atan(x: Float): Float =
    nativeMath.atan(x.toDouble()).toFloat()
```

- The returned value is `y` such that `\sinh(y) = x`.
- Special cases:
  * `asinh(NaN)` is `NaN`
  * `asinh(+Inf)` is `+0.0`
  * `asinh(-Inf)` is `-0.0`

```kotlin
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asinh(x: Float): Float =
    nativeMath.asinh(x.toDouble()).toFloat()
```

- The returned value is `y` such that `\cosh(y) = x`.
- Special cases:
  * `acosh(NaN)` is `NaN`
  * `acosh(+Inf)` is `+0.0`
  * `acosh(-Inf)` is `-0.0`

```kotlin
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acosh(x: Float): Float =
    nativeMath.acosh(x.toDouble()).toFloat()
```

- The returned value is `y` such that `\tanh(y) = x`.
- Special cases:
  * `tanh(NaN)` is `NaN`
  * `tanh(+Inf)` is `+1.0`
  * `tanh(-Inf)` is `-1.0`

```kotlin
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tanh(x: Float): Float =
    nativeMath.tanh(x.toDouble()).toFloat()
```

- Computes the positive square root of the value `x`.
- Special cases:
  * `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`.
  * `sqrt(+Inf)` is `+Inf`.

```kotlin
@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`

```kotlin
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun exp(x: Float): Float =
    nativeMath.exp(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(0, b)` is `NaN` when `x < 0` or `b <= 0`.
  * `log(b, 1)` is `-Inf` for `b < 1` and `+Inf` for `b > 1`.

```kotlin
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log(x: Float, y: Float): Float =
    nativeMath.log(x.toDouble(), y.toDouble()).toFloat()
```

- Computes the logarithm of the value `x` to the given base.
- Special cases:
  * `log1p(x)` is `NaN` when `x < 1`.
  * `log1p(+Inf)` is `+Inf`.
  * `log1p(-Inf)` is `-Inf`.

```kotlin
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log1p(x: Float): Float =
    nativeMath.log1p(x.toDouble()).toFloat()
```

- Computes the hyperbolic sine of the value `x`.
- Special cases:
  * `sinh(NaN)` is `NaN`
  * `sinh(+Inf)` is `+Inf`.

```kotlin
@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)` is `+Inf`.

```kotlin
@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`.

```kotlin
@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`.
- Special cases:
  * `asinh(NaN)` is `NaN`
  * `asinh(+Inf)` is `+0.0`.
  * `asinh(-Inf)` is `-0.0`.

```kotlin
@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`.
- Special cases:
  * `acosh(NaN)` is `NaN`
  * `acosh(+Inf)` is `+0.0`.
  * `acosh(-Inf)` is `-0.0`.

```kotlin
@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`.
- Special cases:
  * `atanh(NaN)` is `NaN`
  * `atanh(+Inf)` is `+1.0`.
  * `atanh(-Inf)` is `-1.0`.

```kotlin
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atanh(x: Float): Float =
    nativeMath.atanh(x.toDouble()).toFloat()
```

- Computes the square root of the value `x`.
- Special cases:
  * `sqrt(x)` is `NaN` when `x < 0`.
  * `sqrt(0)` is `0.0`.

```kotlin
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sqrt(x: Float): Float =
    nativeMath.sqrt(x.toDouble()).toFloat()
```
```kotlin
// Computes the natural logarithm
/**
 * 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`
 */
@SinceKotlin("1.2")
@InlineOnly
public 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
 */
@SinceKotlin("1.2")
@InlineOnly
public 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
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()

/**
 * Computes `ln(1 + x)` where `x` is near zero.
 *
 * Special cases:
 *   - `ln1p(NaN)` is `NaN`
 *   - `ln1p(-1.0)` is `-Inf`
 *   - `ln1p(+Inf)` is `+Inf`
 *   - `ln1p(x)` is `NaN` where `x <= -1.0` and `x != 0.0`
 */
@SinceKotlin("1.2")
@InlineOnly
public 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 Floating point value that is greater than or equal to the given value [x] and is a mathematical integer.
 * @see [floor] function
 */
@SinceKotlin("1.2")
@InlineOnly
public 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 Floating point value that is smaller than or equal to the given value [x] and is a mathematical integer.
 * @see [floor] function
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()

/**
 * Rounds the given value [x] towards zero.
 *
 * @return the value [x] having its fractional part truncated.
 * @see [floor] function
 */
@SinceKotlin("1.2")
@InlineOnly
public 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.
 *
 * @return the closest Integer value to [x] to the nearest even Integer.
 * @see [floor] function
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()

/**
 * Returns the absolute value of the given value [x].
 *
 * @return the absolute value [x].
 * @see [abs] function
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline val abs: Float get() = nativeMath.abs(x.toDouble()).toFloat()

/**
 * Returns the sign of the given value:
 *   - `-1.0` if the value is negative,
 *   - `0.0` if the value is zero,
 *   - `1.0` if the value is positive
 *
 * @return the sign of the given value [x].
 * @see [sign] function
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline val sign: Float get() = nativeMath.sign(x.toDouble()).toFloat()

/**
 * Returns the smaller of two values.
 *
 * @return the smaller of [a] and [b].
 * @see [min] function
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)

/**
 * Returns the greater of two values.
 *
 * @return the greater of [a] and [b].
 * @see [max] function
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)
```

[Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6224]
"NaN" *@SinceKotlin("1.2")@InlineOnly
@public actual inline val Float.sign: Float get() =
nativeMath.sign(this.toDouble()).toFloat() *@ 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")@InlineOnly
@public actual inline fun Float.withSign(sign: Float): Float =
this.toDouble().withSign(sign.toDouble()).toFloat() *@ Returns this value with the sign bit same as of the [sign] value.

@SinceKotlin("1.2")@InlineOnly
@public actual inline fun Float.roundToInt(): Int =
toDouble().roundToInt().toInt() * 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`

@SinceKotlin("1.2")@InlineOnly
@public actual inline fun Float.roundToLong(): Long =
toDouble().roundToLong().toLong() * 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`

@SinceKotlin("1.2")@InlineOnly
@public actual inline fun Float.isNaN(): Boolean =
this != this *@ Returns true if this value is NaN.

@SinceKotlin("1.2")@InlineOnly
@public actual inline fun Float.isInfinite(): Boolean =
this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY || this == Double.NAN

// 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
 *   - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow
 *
 * @see absoluteValue extension property for [Int]
 */
public actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n

/**
 * Returns the smaller of two values.
 */
public actual inline fun min(a: Int, b: Int): Int =
nativeMath.min(a, b)

/**
 * Returns the greater of two values.
 */
public actual inline fun max(a: Int, b: Int): Int =
nativeMath.max(a, b)

/**
 * Returns the absolute value of this value.
 *
 * Special cases:
 *   - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow
 *
 * @see abs function
 */
public actual inline val Long.absoluteValue: Long get() =
abs(this).toInt()

/**
 * Returns the sign of this value:
 *   - `-1` if the value is negative,
 *   - `0` if the value is zero,
 *   - `1` if the value is positive
 *
 * @see sign function
 */
public actual val Long.sign: Int get() = when {
    this < 0 -> -1
    this > 0 -> 1
    else -> 0
}

// endregion

// region ================ Number Math

Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6225
Double.NEGATIVE_INFINITY

/**
 * Returns `true` if this value is infinitely large in magnitude.
 */
public actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY

/**
 * Returns `true` if the argument is a finite floating-point value; returns
 * `false` otherwise (for `NaN` and infinity arguments).
 */
public actual fun Double.isFinite(): Boolean = !isNaN() && !isInfinite()

/**
 * Counts the number of set bits in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.countOneBits(): Int {
    // Hacker's Delight 5-1 algorithm
    var v = this
    v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)
    v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)
    v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)
    v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)
    return v
}

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("DEPRECATION")
@kotlin.internal.InlineOnly
public actual inline fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.clz32(this)

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.countTrailingZeroBits(): Int = Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()

/**
 * Returns a number having a single bit set in the position of the
 * most significant set bit of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.takeHighestOneBit(): Int =
    if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())

/**
 * Returns a number having a single bit set in the position of the
 * least significant set bit of this [Int] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.takeLowestOneBit(): Int =
    this and -this

/**
 * Rotates the binary representation of this [Int] number left by the specified
 * [bitCount] number of bits.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.rotateLeft(bitCount: Int): Int =
    shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)

/**
 * Rotates the binary representation of this [Int] number right by the specified
 * [bitCount] number of bits.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Int.rotateRight(bitCount: Int): Int =
    shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)

/**
 * Counts the number of set bits in the binary
 * representation of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.countOneBits(): Long =
    high.countOneBits() + low.countOneBits()

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.countLeadingZeroBits(): Long =
    when (val high = this.high) {
        0 -> Int.SIZE_BITS + low.countLeadingZeroBits()
        else ->
    high.countLeadingZeroBits()
    }

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.countTrailingZeroBits(): Long =
    when (val low = this.low) {
        0 -> Int.SIZE_BITS + high.countTrailingZeroBits()
        else -> low.countTrailingZeroBits()
    }

Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6226
single bit set in the position of the most significant set bit of this [Long] number. * or zero, if this number is zero.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.takeHighestOneBit(): Long =
    when (val high = this.high) {
        0 -> Long(0, high.takeHighestOneBit())
        else -> Long(0, high.takeHighestOneBit())
    }

/**
 * Returns a number, having a single bit set in the position of the least
 * significant set bit of this [Long] number. * or zero, if this number is zero.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.takeLowestOneBit(): Long =
    when (val low = this.low) {
        0 -> Long(low.takeLowestOneBit(), 0)
        else -> Long(low.takeLowestOneBit(), 0)
    }

/**
 * Rotates the binary representation of this [Long] 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 [Long.SIZE_BITS] (64) returns the same number, or more generally:
 * number.rotateLeft(n) == number.rotateLeft((n % 64) * number.rotateRight(n) == number.rotateRight((n % 64)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public actual fun Long.rotateLeft(bitCount: Int): Long {
    if ((bitCount and 31) != 0) {
        val low = this.low
        val high = this.high
        val newLow = low.shl(bitCount) or high.ushr(-bitCount)
        val newHigh = high.shl(bitCount) or low.ushr(-bitCount)
        return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh, newLow)
    } else {
        return if ((bitCount and 32) == 0) this else Long(high, low)
    }
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)

package kotlin.js

import kotlin.internal.LowPriorityInOverloadResolution

/**
 * Exposes the JavaScript [Promise](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.
 */
@Suppress("NOT_DOCUMENTED")
public open external class Promise<out T>(executor: (resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {
    @LowPriorityInOverloadResolution
    public open fun <S> then(onFulfilled: ((T) -> S)?): Promise<S>

    @LowPriorityInOverloadResolution
    public open fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>

    public open fun <S> catch(onRejected: (Throwable) -> S): Promise<S>

    companion object {
        public fun <S> all(promise: Promise<out S>): Promise<Array<out S>>

        public fun <S> race(promise: Array<Promise<S>>): Promise<S>

        public fun reject(e: Throwable): Promise<Nothing>

        public fun <S> resolve(e: S): Promise<S>
        public fun <S> resolve(e: Promise<S>): Promise<S>
    }
}

// It's workaround for KT-19672 since we can fix it properly until KT-11265 isn't fixed.
inline fun <T, S> Promise<T>.then(onFulfilled: (T -> S)?): Promise<S>
    .unsafeCast<Promise<T>>().then(onFulfilled)

private val INV_2_26: Double = 2.0.pow(-26)
private val INV_2_53: Double = 2.0.pow(-53)
internal actual fun doubleFromParts(hi26: Int, low27: Int): Double =
    hi26 * INV_2_26 + low27 * INV_2_53

package kotlin.random

import kotlin.math.pow

internal actual fun defaultPlatformRandom(): Random =
    Random(js("(Math.random() * Math.pow(2, 32)) | 0").unsafeCast<Int>())

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package kotlin.js

import getKClass
import kotlin.reflect.KClass
import kotlin.reflect.js.internal.KClassImpl

/**
 * Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.\n */

```kotlin
external interface JsClass<T : Any> {
    /**
     * Returns the unqualified name of the class represented by this instance.\n     */
    val name: String
}

@Deprecated("Use class literal and extension property `js` instead.", replaceWith = ReplaceWith("T::class.js"), level = DeprecationLevel.ERROR)
external fun <T : Any> jsClass(): JsClass<T>

@Deprecated("Use class literal and extension property `js` instead.", replaceWith = ReplaceWith("this::class.js"), level = DeprecationLevel.ERROR)
val <T : Any> T.jsClass: JsClass<T>
    get() = when (jsTypeOf(this)) {
        "string" -> js("String")
        "number" -> js("Number")
        "boolean" -> js("Boolean")
        else -> js("Object").getPrototypeOf(this).constructor
    }

/**
 * Obtains a constructor reference for the given `KClass`.\n */
val <T : Any> KClass<T>.js: JsClass<T>
    get() = (this as KClassImpl<T>).jClass
```

---

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package kotlin.js

import getKClass
import kotlin.reflect.KClass
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external fun <T : Any> jsClass(): JsClass<T>

@Deprecated("Use class literal and extension property `js` instead.", replaceWith = ReplaceWith("this::class.js"), level = DeprecationLevel.ERROR)
val <T : Any> T.jsClass: JsClass<T>
    get() = when (jsTypeOf(this)) {
        "string" -> js("String")
        "number" -> js("Number")
        "boolean" -> js("Boolean")
        else -> js("Object").getPrototypeOf(this).constructor
    }

/**
 * Obtains a constructor reference for the given `KClass`.\n */
val <T : Any> KClass<T>.js: JsClass<T>
    get() = (this as KClassImpl<T>).jClass
```

---

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package kotlin.js

import getKClass
import kotlin.reflect.KClass
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    /**
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external fun <T : Any> jsClass(): JsClass<T>

@Deprecated("Use class literal and extension property `js` instead.", replaceWith = ReplaceWith("this::class.js"), level = DeprecationLevel.ERROR)
val <T : Any> T.jsClass: JsClass<T>
    get() = when (jsTypeOf(this)) {
        "string" -> js("String")
        "number" -> js("Number")
        "boolean" -> js("Boolean")
        else -> js("Object").getPrototypeOf(this).constructor
    }

/**
 * Obtains a constructor reference for the given `KClass`.\n */
val <T : Any> KClass<T>.js: JsClass<T>
    get() = (this as KClassImpl<T>).jClass
```
KTypeImpl(classifier, arguments.asList(), isMarkedNullable)@JsName("createDynamicKType\")\nuninternal fun createDynamicKType(): KType = DynamicKType@JsName("markKTypeNullable\")\nuninternal fun markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments,
true)@JsName("createKTypeParameter\")\nuninternal fun createKTypeParameter(name: String,\nupperBounds: Array<KType>,\nvariance: String?) = KTypeParameter {\n    kVariance = when (variance) {\n        "in" -> KVariance.IN\n        "out" -> KVariance.OUT\n        else -> KVariance.INVARIANT\n    }\n    return KTypeParameterImpl(name, upperBounds.asList(), kVariance,\nfalse)\n}@JsName("getStarKTypeProjection\")\nuninternal fun getStarKTypeProjection(): KTypeProjection =\nKTypeProjection.STAR@JsName("createCovariantKTypeProjection\")\nuninternal fun createCovariantKTypeProjection(type: KType): KTypeProjection =\nKTypeProjection.covariant(type)@JsName("createInvariantKTypeProjection\")\nuninternal fun createInvariantKTypeProjection(type: KType): KTypeProjection =\nKTypeProjection.invariant(type)@JsName("createContravariantKTypeProjection\")\nuninternal fun createContravariantKTypeProjection(type: KType): KTypeProjection =\nKTypeProjection.contravariant(type)
@JsName("shortClass")
val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(), "Short", { it is Short })

@JsName("intClass")
val intClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int", { it is Int })

@JsName("floatClass")
val floatClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(), "Float", { it is Float })

@JsName("doubleClass")
val doubleClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Double>>(), "Double", { it is Double })

@JsName("arrayClass")
val arrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>>(), "Array", { it is Array<*> })

@JsName("stringClass")
val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(), "String", { it is String })

@JsName("throwableClass")
val throwableClass = PrimitiveKClassImpl(js("Error").unsafeCast<JsClass<Throwable>>(), "Throwable", { it is Throwable })

@JsName("booleanArrayClass")
val booleanArrayClass = PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<BooleanArray>>(), "BooleanArray", { it is BooleanArray })

@JsName("charArrayClass")
val charArrayClass = PrimitiveKClassImpl(js("Uint16Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray })

private val functionClasses = arrayOfNulls<KClassImpl<Any>>(0)

@JsName("getKClass")
internal fun <T : Any> getKClass(jClass: JsClass<T>): KClass<T> =
    when (jsTypeOf(jClass)) {
        "string" -> PrimitiveClasses.stringClass
        "number" -> when (jClass is Number) {
            is Int -> PrimitiveClasses.intClass
            is Float -> PrimitiveClasses.floatClass
            is Double -> PrimitiveClasses.doubleClass
        }
        "boolean" -> PrimitiveClasses.booleanClass
        "function" -> getFunctionKClass(jClass as Dynamic)
        "array" -> when (jClass is Array<*>) {
            is CharArray -> PrimitiveClasses.charArrayClass
            is ByteArray -> PrimitiveClasses.byteArrayClass
            is ShortArray -> PrimitiveClasses.shortArrayClass
            is IntArray -> PrimitiveClasses.intArrayClass
            is LongArray -> PrimitiveClasses.longArrayClass
            is FloatArray -> PrimitiveClasses.floatArrayClass
            is DoubleArray -> PrimitiveClasses.doubleArrayClass
            else -> error("Invalid array type")
        }
        "object" -> objectClass(jClass)
        else -> error("Invalid type")
    }

fun getFunctionKClass(jClass: Dynamic): KClassImpl<Any> {
    fun functionClass(arity: Int): KClassImpl<Any> {
        return functionClasses.get(arity) ?: run {
            val result =
                PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(), "Function
                
/*
 */
KClass<*> -> KClass::<class
    e is Array<*> -> PrimitiveClasses.arrayClass
    else -> {
        val constructor = js("Object").getPrototypeOf(e).constructor
        when {
            constructor
                == js("Object") -> PrimitiveClasses.anyClass
            constructor === js("Error") ->
                PrimitiveClasses.throwableClass
            else -> {
                val constructor: JsClass<T> =
                    getOrCreateKClass(jsClass)
                unsafeCast<KClass<T>>()
            }
        }
    }
}

private fun <T : Any> getOrCreateKClass(jClass: JsClass<T>):
    KClass<T> {
        if (jClass === js("String")) return PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()

        val metadata = jClass.asDynamic().`$metadata$
        return if (metadata != null)
            if (metadata.`$kClass$
                == null) {
                val kClass = SimpleKClassImpl(jClass)
                metadata.`$kClass$
                = kClass
                kClass
            } else {
                metadata.`$kClass$
            }
        else {
            SimpleKClassImpl(jClass)
        }
    }

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 */

package kotlin.js

/**
 * Exposes the JavaScript [RegExp
 */
@Suppress("NOT_DOCUMENTED")
public external class RegExp(pattern: String, flags: String? = definedExternally) {

    public fun test(str: String): Boolean

    public fun exec(str: String): RegExpMatch?

    public override fun toString(): String

    /**
     * The lastIndex is a read/write integer property of regular
     * expressions that specifies the index at which to start the next match.
     */
    public var lastIndex: Int

    public
        val global: Boolean
    public
        val ignoreCase: Boolean
    public
        val multiline: Boolean
}

/**
 * Resets the
 * regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning
 * of the input string.
 */
public fun RegExp.reset() {
    lastIndex = 0
}

// TODO: Inherit from array or introduce asArray() extension
/**
 * Represents the return value of [RegExp.exec].
 */
@Suppress("NOT_DOCUMENTED")
public external interface RegExpMatch {
    public val index: Int

    public val input: String

    public val length: Int


    inline fun RegExpMatch.asArray(): Array<out String?> = unsafeCast<Array<out String?>>()
}

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 * found in the license/LICENSE.txt file.
 */

package kotlin.sequences

internal actual class ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {
    private var sequenceRef: Sequence<T>? = sequence

    override fun iterator(): Iterator<T> {
        val sequence = sequenceRef ?: throw IllegalStateException("This sequence can be consumed only once.")
        sequenceRef = null
        return sequence.iterator()
    }
}

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 * Programming Language contributors.
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 * found in the license/LICENSE.txt file.
 */

package kotlin.text

/**
 * A mutable sequence of characters.
 *
 * String builder can be used to
 * efficiently perform multiple string manipulation operations.
 */
public actual class StringBuilder actual constructor(content: String) : Appendable, CharSequence {
    /**
     * Constructs a string builder that contains the same characters as
     * the specified [content] char sequence.
     */
    actual constructor(content: CharSequence) : this(content.toString())
Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].

```
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun indexOf(string: String, startIndex: Int): Int {
    return this.string.asDynamic().indexOf(string, startIndex)
}"**n */
```

* `indexOf(string: String, startIndex: Int): Int` Returns the index within this string builder of the last occurrence of the specified [string]. If the specified [startIndex] is not specified, this value starts at the beginning of this string builder. If the specified [string] does not occur in this string builder, the return value is `-1`.

```
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun lastIndexOf(string: String, startIndex: Int):
Int {
    return this.string.asDynamic().lastIndexOf(string, startIndex)
}"**n */
```

* `lastIndexOf(string: String, startIndex: Int): Int` Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex]. Returns the index within this string builder of the last occurrence of the specified [string] starting from the specified [startIndex].

```
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun lastIndexOf(string: String): Int {
    return this.string.asDynamic().lastIndexOf(string)
}"**n */
```

* `lastIndexOf(string: String): Int` Returns `-1` if the specified [string] does not occur in this string builder. Returns the index within this string builder of the last occurrence of the specified [string].

```
@SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: String): StringBuilder {
    if (string.isEmpty() && startIndex < 0) return -1
    return this.string.asDynamic().lastIndexOf(string, startIndex)
} /*n */
```

* `insert(index: Int, value: String): StringBuilder` Inserts the string representation of the specified string at the specified [index] and returns this instance. The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method, and then that string was inserted into this string builder at the specified [index].

```
throw IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: Any?): StringBuilder {
    return this
} /*n */
```

* `insert(index: Int, value: Any?): StringBuilder` Inserts the specified object into this string builder at the specified [index] and returns this instance. The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method, and then that string was inserted into this string builder at the specified [index].

```
throw IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: CharSequence?): StringBuilder {
    return this
} /*n */
```

* `insert(index: Int, value: CharSequence?): StringBuilder` Inserts the specified character sequence into this string builder at the specified [index] and returns this instance. The overall effect is exactly as if the [value] character sequence was inserted into this string builder at the specified [index].

```
throw IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: Char): StringBuilder {
    return this
} /*n */
```

* `insert(index: Int, value: Char): StringBuilder` Inserts the specified character into this string builder at the specified [index] and returns this instance. The overall effect is exactly as if the specified character was converted to a string by the `value.toString()` method, and then that string was inserted into this string builder at the specified [index].

```
throw IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: CharArray): StringBuilder {
    return this
} /*n */
```

* `insert(index: Int, value: CharArray): StringBuilder` Inserts the specified character array into this string builder at the specified [index] and returns this instance. The overall effect is exactly as if the specified character array was converted to a string by the `value.toString()` method, and then that string was inserted into this string builder at the specified [index].

```
throw IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: Boolean): StringBuilder {
    return this
} /*n */
```

* `insert(index: Int, value: Boolean): StringBuilder` Inserts the specified boolean into this string builder at the specified [index] and returns this instance. The overall effect is exactly as if the specified boolean was converted to a string by the `value.toString()` method, and then that string was inserted into this string builder at the specified [index].

```
throw IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: Any): StringBuilder {
    throw IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: Any?): StringBuilder {
    return this
} /*n */
```

* `insert(index: Int, value: Any?): StringBuilder` Inserts the specified object into this string builder at the specified [index] and returns this instance. The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method, and then that string was inserted into this string builder at the specified [index].

```
throw IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: Char): StringBuilder {
    return this
} /*n */
```

* `insert(index: Int, value: Char): StringBuilder` Inserts the specified character into this string builder at the specified [index] and returns this instance. The overall effect is exactly as if the specified character was converted to a string by the `value.toString()` method, and then that string was inserted into this string builder at the specified [index].

```
throw IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: CharSequence?): StringBuilder {
    return this
} /*n */
```

* `insert(index: Int, value: CharSequence?): StringBuilder` Inserts the specified character sequence into this string builder at the specified [index] and returns this instance. The overall effect is exactly as if the specified character sequence was inserted into this string builder at the specified [index].

```
throw IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
*"An @SinceKotlin("1.3")@n @ExperimentalStdlibApi
actual fun insert(index: Int, value: Any?): StringBuilder {
    return this
} /*n */
```

* `insert(index: Int, value: Any?): StringBuilder` Inserts the specified object into this string builder at the specified [index] and returns this instance. The overall effect is exactly as if the specified object was converted to a string by the `value.toString()` method, and then that string was inserted into this string builder at the specified [index].
this.string.substring(index) return this */**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 [IllegalArgument] if
 [newLength] is less than zero. * *n @SinceKotlin("1.3") * @ExperimentalStdlibApi * *n actual fun
 setLength(newLength: Int) { * *n * if (newLength < 0) * *n * throw IllegalArgumentException("Negative new
 length: $newLength.") * *n * if (newLength <= length) * *n * string = string.substring(0,
 newLength) } else { * *n * for (i in length until newLength) { * *n * string += '\u0000' * *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.
 */@SinceKotlin("1.3") */@ExperimentalStdlibApi * *n actual fun substring(startIndex: Int): String { * *n AbstractList.checkPositionIndex(startIndex, length) */**n * return string.substring(startIndex) */**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 [IllegalArgument] when
 [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`. * *n @SinceKotlin("1.3") * @ExperimentalStdlibApi * *n actual fun substring(startIndex: Int, endIndex: Int): String { * *n AbstractList.checkBoundsIndexes(startIndex, endIndex, length) */**n * return string.substring(startIndex, endIndex) */**n * Attempts to reduce storage used for this string builder. * *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 * In Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal
 to the length of the string builder. * *n @SinceKotlin("1.3") * @ExperimentalStdlibApi * *n actual fun
 trimToSize() { if (this.asDynamic()._capacity !== undefined) { * *n this.asDynamic()._capacity =
 length } } */**n * Override fun toString(): String = string */**n * Clears the content of this string
 builder making it empty and returns this instance. * *n * @sample samples.text.Strings.clearStringBuilder */@SinceKotlin("1.3") */@ExperimentalStdlibApi * *n public fun clear(): StringBuilder { * *n string = "" * *n return this */**n * Sets the character at the specified [index] to the specified [value]. * *n * @throws
 IndexOutOfBoundsException if [index] is out of bounds of this string builder. * *n @SinceKotlin("1.3") */@ExperimentalStdlibApi * *n public operator fun set(index: Int, value: Char) { AbstractList.checkElementIndex(index, length) */**n * string = string.substring(0, index) + value +
 string.substring(index + 1) } */**n * Replaces characters in the specified range of this string builder with
 characters in the specified string [value] and returns this instance. * *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 * @throws IndexOutOfBoundsException or
 [IllegalArgument] if [startIndex] is less than zero, greater than the length of this string builder, or
 `startIndex > endIndex`. * *n @SinceKotlin("1.3") */@ExperimentalStdlibApi * *n public fun
 setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder { checkReplaceRange(startIndex,
 endIndex, length) */**n * this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)
 return this */**n * private fun checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) { * *n if (startIndex < 0 || startIndex > length) {
 throw IndexOutOfBoundsException("startIndex: $startIndex, length: $Length") } * *n if (startIndex > endIndex) {
 throw IndexOutOfBoundsException("startIndex:$startIndex > endIndex:$endIndex") } * *n * Removes the character at the specified [index] from this string builder and returns this instance. * *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 * @throws
IndexOutOfBoundsException if [index] is out of bounds of this string builder.

*/

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun deleteAt(index: Int): StringBuilder {
    AbstractList.checkElementIndex(index, length) /* * Removes characters in the specified range from this string builder and returns this instance.*/
    @param startReplaceIndex the beginning (inclusive) of the range to remove.
    @param endReplaceIndex the end (exclusive) of the range to remove.
    @param destination the array to copy to.

    string = string.substring(0, index) + string.substring(index + 1)
    return this
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun deleteRange(startIndex: Int, endIndex: Int): StringBuilder {
    AbstractList.checkReplaceRange(startIndex, endIndex, length) /* * Copies characters from this string builder into the [destination] character array.

    string = string.substring(0, startIndex) + string.substring(endIndex)
    return this
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex, destination.size)

    var dstIndex = destinationOffset
    for (index in startIndex until endIndex) {
        destination[dstIndex++] = string[index]
    }
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {
    string += value.concatToString(startIndex, endIndex)
    return this
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun appendRange(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder {
    val stringCsq = value.toString()
    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)

    string += stringCsq.substring(startIndex, endIndex)
    return this
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun appendRange(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder {
    val stringCsq = value.toString()
    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)

    string += stringCsq.substring(startIndex, endIndex)
    return this
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun appendRange(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder {
    val stringCsq = value.toString()
    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)

    string += stringCsq.substring(startIndex, endIndex)
    return this
}

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun insertRange(index: Int, value: CharArray,
startIndex: Int, endIndex: Int): StringBuilder {
    AbstractList.checkPositionIndex(index, this.length)

    string = string.substring(0, index) + value.substring(startIndex, endIndex) + string.substring(index)
    return this
}

/**
 * Inserts characters in a subsequence of the specified character sequence [value] into
 * this string builder at the specified [index] and returns this instance.
 * The inserted characters go in the same order as in the [value] character sequence, starting at [index].
 * @param index the position in this string builder to insert at.
 * @param value the character sequence from which a subsequence is inserted. If [value] is `null`,
 * characters will be inserted as if [value] contained the four characters `"null"`. If @param value start
 * @param endIndex the beginning (inclusive) of the subsequence to insert.
 * @param endIndex the end (exclusive) of the subsequence to insert.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun insertRange(index: Int, value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder {
    AbstractList.checkPositionIndex(index, length)

    val stringCsq = value.toString()
    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)

    string = string.substring(0, index) + stringCsq.substring(startIndex, endIndex) + string.substring(index)
    return this
}

/**
 * Clears
 * the content of this string builder making it empty and returns this instance.
 *
 * @sample
 * samples.text.Strings.clearStringBuilder
 */
@SinceKotlin("1.3")
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.clear(): StringBuilder = this.clear()

/**
 * Sets the character at the specified [index] to the specified [value].
 *
 * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline operator fun StringBuilder.set(index: Int, value: Char) = this.set(index, value)

/**
 * Replaces characters in the specified range of this string builder with characters in
 * the specified string [value] and returns this instance.
 *
 * @param startIndex the beginning (inclusive) of the range to replace.
 * @param endIndex the end (exclusive) of the range to replace.
 * @param value the string to replace with.
 *
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less
 * than zero, greater than the length of this string builder, or [startIndex] > [endIndex].
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder =
    this.setRange(startIndex, endIndex, value)

/**
 * Removes the character at the specified [index] from this string builder and returns this instance.
 *
 * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.
 * @param index the index of `Char` to remove.
 *
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when [startIndex] > [endIndex].
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.deleteAt(index: Int): StringBuilder = this.deleteAt(index)

/**
 * Removes characters in the specified range from this string builder and returns this instance.
 *
 * @param startIndex the beginning (inclusive) of the range to remove.
 * @param endIndex the end (exclusive) of the range to remove.
 *
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when [startIndex] > [endIndex].
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder =
    this.deleteRange(startIndex, endIndex)

/**
 * Copies characters from this string builder into the [destination] character array.
 *
 * @param destination the array to copy to.
 * @param destinationOffset the position in the array to copy to, 0 by default.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")
public actual inline fun StringBuilder.copyTo(destination: CharArray?, destOffset: Int?): StringBuilder =
    this.copyTo(destination, destOffset)
@throws IllegalArgumentException when startIndex or endIndex is out of range of this string builder or when startIndex >= endIndex.

* Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] character sequence indices or when `startIndex > endIndex`.

* Appends characters in a subsequence of the specified character sequence [value] to this string builder and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subarray of the specified character array [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subarray of the specified character array [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subarray of the specified character array [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.

* @throws IndexOutOfBoundsException or IllegalArgumentException when startIndex or endIndex is out of range of the [value] array indices or when `startIndex > endIndex`.

* Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified index and returns this instance.
toDouble().unsafeCast<Float>()

/**
 * Parses the string as a [Double] number and returns the result * or `null` if the string is not a valid representation of a number.
 */
public actual fun String.toDoubleOrNull(): Double? = (+(this.asDynamic())).unsafeCast<Double>().takeIf {
    !(it.isNaN() && !this.isNaN() || it == 0.0 &&
    this.isBlank())
}

/**
 * Parses the string as a [Float] number and returns the result * or `null` if the string is not a valid representation of a number.
 */
@kotlin.internal.InlineOnly
public actual inline fun String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()

/**
 * Returns a string representation
 * of this [Byte] value in the specified [radix].
 */
@SinceKotlin("1.2")
@kotlin.internal.InlineOnly
public actual inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)

/**
 * Returns a string representation
 * of this [Short] value in the specified [radix].
 */
@SinceKotlin("1.2")
@kotlin.internal.InlineOnly
public actual inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)

/**
 * Returns a string representation
 * of this [Int] value in the specified [radix].
 */
public actual fun Int.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))

private fun String.isNaN(): Boolean = when (this.toLowerCase()) {
    "nan", "+nan", "-nan" -> true
    else -> false
}

/**
 * Checks whether the given [radix] is valid radix for string to number and number to string conversion.
 */
@PublishedApi
internal actual fun checkRadix(radix: Int): Int {
    if (radix !in 2..36) {
        throw IllegalArgumentException("radix $radix was not in valid range 2..36")
    }
    return radix
}

internal actual fun digitOf(char: Char, radix: Int): Int = when {
    char >= '0' && char <= '9' -> char - '0'
    char >= 'A' && char <= 'Z' -> char - 'A' + 10
    char >= 'a' && char <= 'z' -> char - 'a' + 10
    else -> -1
}.let { if (it >= radix) -1 else it }

package kotlin.text

import kotlin.js.RegExp

/**
 * Provides enumeration values to use to set regular expression options.
 */
public actual enum class RegexOption(val value: String) {
    /** Enables case-insensitive matching. */
    IGNORE_CASE("i"),
    /** Enables multiline mode.
     *
     * In multiline mode the expressions `^` and `$` match just after or just before, respectively, a line terminator or the end of the input sequence.
     */
    MULTILINE("m")
}

/**
 * Represents the results from a single capturing group within a [MatchResult] of [Regex].
 *
 * @param value The value of captured group.
 */
public actual data class MatchGroup(actual val value: String)

/**
 * Represents a compiled regular expression.
 * Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.
 *
 * 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)
 * and
 * [http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp)
 */
public actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {

    /** Creates a regular expression from the specified [pattern] string and the specified single [option].  */
    constructor(pattern: String, option: RegexOption) : this(pattern, setOf(option))

    /** Creates a regular expression from the specified [pattern] string and the default options.  */
    constructor(pattern: String) : this(pattern, emptySet())

    /** The pattern string of this regular expression. */
    public actual val pattern: String = pattern
    /** The set of options that were used to create this regular expression. */
    public actual val options: Set<RegexOption> = options.toSet()
    private val nativePattern: RegExp = RegExp(pattern, options.map {
        it.value
    }.joinToString(separator = "") + "g")

    /** Indicates whether the regular expression matches the entire [input]. */
    public actual infix fun matches(input: CharSequence): Boolean {
        nativePattern.reset()
        return nativePattern.test(input.toString())
    }

    /** Indicates whether the regular expression can find at least one match in the specified [input]. */
    public actual fun containsMatchIn(input: CharSequence): Boolean {
        nativePattern.reset(input.toString())
        return nativePattern.test(input.toString())
    }

    /** Returns the first match of a
regular expression in the [input], beginning at the specified [startIndex].
*\n * @param startBegin An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()`.
* \n * @return An instance of [MatchResult] if match was found or ‘null’ otherwise.
* \n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? = nativePattern.findNext(input.toString(), startIndex) /**\n* Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified
[startIndex].
*\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* @return An instance of [MatchResult] if the entire input matches or ‘null’ otherwise.
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun findAll(input: CharSequence, startIndex: Int = 0): Sequence<MatchResult> =
    generateSequence({ find(input, startIndex) },
    { match -> match.next() })

    /**
     * Attempts to match the entire [input] CharSequence against the pattern.
     * @return An instance of [MatchResult] if the entire input matches or ‘null’ otherwise.
     */
    public actual fun matchEntire(input: CharSequence): MatchResult? {
        if (pattern.startsWith('^') &&
            pattern.endsWith('$'))
            return find(input)
        else
            return Regex("^${pattern.trimStart('^').trimEnd('$')}$", options).find(input)
    }

    /**
     * Replaces all occurrences of this regular expression in the specified [input] string with specified [replacement] expression.
     */
    public actual fun replace(input: CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern, replacement)

    /**
     * Replaces all occurrences of this regular expression in the specified [input] string with the result of
     * the given function [transform] that takes [MatchResult] and returns a string to be used as a
     * replacement for that match.
     */
    public actual fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {
        var match = find(input)
        if (match == null) return

        var lastStart = 0
        val length = input.length
        val sb = StringBuilder(length)

        do {
            val foundMatch = match!!
            sb.append(input, lastStart, foundMatch.range.start)
            sb.append(transform(foundMatch))
            lastStart = foundMatch.range.endInclusive + 1
            match =
            foundMatch.next()
        } while (lastStart < length && match != null)

        if (lastStart < length) {
            sb.append(input, lastStart, length)
        } return sb.toString()
    }

    /**
     * Replaces the first occurrence of this regular expression in the specified [input] string with specified [replacement] expression.
     */
    public actual fun replaceFirst(input: CharSequence, replacement: String): String {
        val nonGlobalOptions =
        options.map { it.value }.joinToString(separator = "")
        return input.toString().nativeReplace(RegExp(pattern,
        nonGlobalOptions), replacement)
    }

    /**
     * Splits the [input] CharSequence around matches of this regular expression.
     * @param limit Non-negative value specifying the maximum number of substrings
     * the string can be split to. Zero by default means no limit is set.
     */
    public actual fun split(input: CharSequence, limit: Int = 0): List<String> {
        require(limit >= 0) { "Limit must be non-negative, but was $limit" }
        val matches = findAll(input).take(limit - 1)
        val result =
        mutableListOf<String>()
        var lastStart = 0

        for (match in matches) {
            result.add(input.subSequence(lastStart, match.range.start).toString())
            lastStart = match.range.endInclusive + 1
        }
        result.add(input.subSequence(lastStart, input.length).toString())
        return result
    }

    /**
     * Returns the string representation of this regular expression, namely the [pattern] of this regular
     * expression.
     */
    public override fun toString(): String =
    nativePattern.toString()
searching for an occurrence of the regular expression:

\*\npublic actual fun fromLiteral(literal: String):

Regex = Regex(escape(literal))

\*/
public actual fun escape(literal: String):

String = literal.nativeReplace(replacementEscape, "\\$&")

/**
 * Returns a literal replacement expression for the
 * specified [literal] string.
 * No characters of that string will have special meaning when it is used as a
 * replacement string in [Regex.replace] function.
 *
 * @param literal the string to escape
 * @return a literal replacement expression
 */
private val patternEscape = RegExp("""[\-\\^$*+?.()|\[\]{}\]""", "g")
private val replacementEscape = RegExp("""\$""", "g")

/**
 * Creates a regular expression from the specified [pattern] string and the specified single [option].
 */
@Deprecated("Provided for binary compatibility", level = DeprecationLevel.HIDDEN)
@JsName("Regex_sb3q2\$")
public fun Regex_0(pattern: String, option: RegexOption): Regex = Regex(pattern, setOf(option))

/** Creates a regular expression from the specified
 * string and the default options.
 */
@Deprecated("Provided for binary compatibility", level = DeprecationLevel.HIDDEN)
@JsName("Regex_61zpoe\$")
public fun Regex_1(pattern: String): Regex = Regex(pattern, emptySet())

private fun RegExp.findNext(input: String, from: Int): MatchResult? {
    this.lastIndex = from
    val match = exec(input)
    if (match == null) return null
    val range = match.index..lastIndex - 1

    return object : MatchResult {
        override val range: IntRange = range
        override val value: String
            get() = match[0]!!

        override val groups: MatchGroupCollection = object : MatchGroupCollection, AbstractCollection<MatchGroup?>() {
            override val size: Int get() = match.length
            override fun iterator(): Iterator<MatchGroup?> = indices.asSequence().map { this[it] }.iterator()

            override fun get(index: Int): MatchGroup? = matchValues_!![index]
        }

        private var
            groupValues_?: List<String>? = null

        override val groupValues: List<String>
            get() {
                if (groupValues_ == null) {
                    groupValues_ = object : AbstractList<String>() {
                        override val size: Int get() = match.length
                        override fun get(index: Int): String = match[index] ?: ""
                    }
                }
                return groupValues_!!
            }

        override fun next(): MatchResult? = this@findNext.findNext(input, if (range.isEmpty()) range.start + 1 else range.endInclusive + 1)
    }
}

package kotlin.text

import kotlin.js.RegExp

@kotlin.internal.InlineOnly
internal actual inline fun String.nativeIndexOf(ch: Char, fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)

@kotlin.internal.InlineOnly
internal actual inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(), fromIndex)

/**
 * Returns `true` if this string starts with the specified prefix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeStartsWith(prefix, 0)
    else
        return regionMatches(0, prefix, 0, prefix.length, ignoreCase)
}

/**
 * Returns `true` if a substring of this string starting at the specified offset
 * starts with the specified prefix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeStartsWith(prefix, startIndex)
    else
        return regionMatches(startIndex, prefix, 0, prefix.length, ignoreCase)
}

/**
 * Returns `true` if this string ends with the specified suffix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeEndsWith(suffix, 0)
    else
        return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)
}

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.matches(regex: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeMatches(regex, 0)
    else
        return regionMatches(length, regex, 0, regex.length, ignoreCase)
}

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharSequence.isBlank(): Boolean = length == 0 || (if (this is String) this else this.toString()).matches("^[\\s\\xA0]+$")

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MENTS")
public actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean =
    if (this == null) other == null else if (!ignoreCase) this == other else other != null &&
    this.toLowerCase() ==
    other.toLowerCase() @ Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =
    regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase) * Returns a copy of this string having its first letter uppercased, or the original string.

* if it's empty or already starts with an upper case letter.

* @sample samples.text.Strings.capitalize

* @sample samples.text.Strings.decapitalize

/**
 * Returns a copy of this string regionMatches the [this] string to the [other] string begining at [otherOffset] with length [length] using [ignoreCase].
 * Returns false if the given [other] string is empty or null.
 * @sample samples.text.Strings.regionMatches
 */
public actual fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =
    regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)

/**
 * Returns a copy of this string regionMatches the [this] string to the [other] string begining at [otherOffset] with length [length] using [ignoreCase].
 * Returns true if [this] is empty or already starts with a lower case letter.
 * @sample samples.text.Strings.regionMatches
 */
public actual fun String.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =
    regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)

/**
 * Formats a number to a string with a decimal point.
 * @sample samples.text.Strings.format
 */
public actual fun Number.format(style: NumberFormatStyle = NumberFormatStyle.Decimal, decimalPlaces: Int = 0): String

/**
 * Returns the negative [size] if [throwOnMalformed] is false, throws [CharacterCodingException] otherwise.
 */
@ UseExperimental(ExperimentalStdlibApi::class)
private fun malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int
    if (throwOnMalformed) throw CharacterCodingException("Malformed sequence starting at ${index - 1}")
    return -size

/**
 * Returns code point corresponding to UTF-16 surrogate pair, where the first of the pair is the [high] and the second is in the [string] at the [index].
 * Returns zero if the pair is malformed and [throwOnMalformed] is false.
 * @throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.
 */
private fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int

/**
 * Returns code point corresponding to UTF-8 sequence of two bytes, where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the [index].
 * Returns zero if the sequence is malformed and [throwOnMalformed] is false.
 * @throws CharacterCodingException if the sequence is two bytes is malformed and [throwOnMalformed] is true.
 */
private fun codePointFromBytes(bytes: ByteArray, byte1: Int, index: Int, throwOnMalformed: Boolean): Int

private fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (byte1 and 0x1E == 0 || index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte2 and 0xC0 != 0x80) {
        return malformed(0, index, throwOnMalformed)
    }
    return (byte1 shl 6) xor byte2 xor 0xF80
}

/**
 * Returns code point corresponding to UTF-8 sequence of three bytes, where the first byte of the sequence is the [byte1]
 * and the others are in the [bytes] array starting from the [index].
 * @param bytes the bytes to decode
 * @param byte1 the first byte of the sequence
 * @param index the start index of the sequence
 * @param endIndex the end index of the sequence
 * @param throwOnMalformed whether to throw on malformed char sequence or replace by the [REPLACEMENT_BYTE_SEQUENCE]
 * @return code point corresponding to the sequence or [-1] if the sequence is malformed
 */
private fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }

    val byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0) {
        if (byte2 and 0xE0 != 0xA0) {
            // Non-shortest form
            return malformed(0, index, throwOnMalformed)
        } else if (byte1 and 0xF == 0xD) {
            if (byte2 and 0xE0 != 0x80) {
                // Out of Unicode code points domain (larger than U+10FFFF)
                return malformed(0, index, throwOnMalformed)
            }
        } else if (byte2 and 0xC0 != 0x80) {
            return malformed(0, index, throwOnMalformed)
        }
    }

    if (index + 1 == endIndex) {
        return malformed(1, index, throwOnMalformed)
    }
    val byte3 = bytes[index + 1].toInt()
    if (byte3 and 0xC0 != 0x80) {
        return malformed(1, index, throwOnMalformed)
    }

    if (index + 2 == endIndex) {
        return malformed(2, index, throwOnMalformed)
    }
    val byte4 = bytes[index + 2].toInt()
    if (byte4 and 0xC0 != 0x80) {
        return malformed(2, index, throwOnMalformed)
    }
    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor 0x381F80
}

/**
 * Returns code point corresponding to UTF-8 sequence of four bytes, where the first byte of the sequence is the [byte1]
 * and the others are in the [bytes] array starting from the [index].
 * @param bytes the bytes to decode
 * @param byte1 the first byte of the sequence
 * @param index the start index of the sequence
 * @param endIndex the end index of the sequence
 * @param throwOnMalformed whether to throw on malformed char sequence or replace by the [REPLACEMENT_BYTE_SEQUENCE]
 * @return code point corresponding to the sequence or [-1] if the sequence is malformed
 */
    if (index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }

    val byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0x0) {
        if (byte2 and 0xF0 <= 0x80) {
            // Out of Unicode code points domain (larger than U+10FFFF)
            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF == 0x4) {
        if (byte2 and 0xF0 != 0x80) {
            // Out of Unicode code points domain (larger than U+10FFFF)
            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF > 0x4) {
        return malformed(0, index, throwOnMalformed)
    } else if (byte2 and 0xC0 != 0x80) {
        return malformed(0, index, throwOnMalformed)
    }

    if (index + 1 == endIndex) {
        return malformed(1, index, throwOnMalformed)
    }
    val byte3 = bytes[index + 1].toInt()
    if (byte3 and 0xC0 != 0x80) {
        return malformed(1, index, throwOnMalformed)
    }

    if (index + 2 == endIndex) {
        return malformed(2, index, throwOnMalformed)
    }
    val byte4 = bytes[index + 2].toInt()
    if (byte4 and 0xC0 != 0x80) {
        return malformed(2, index, throwOnMalformed)
    }
    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor byte4 xor 0x381F80
}

const val MAX_BYTES_PER_CHAR = 3

private val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(), 0xBF.toByte(), 0xBD.toByte())

/**
 * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].
 * @param string the string to encode
 * @param startIndex the start offset (inclusive) of the substring to encode
 * @param endIndex the end offset (exclusive) of the substring to encode
 * @param throwOnMalformed whether to throw on malformed char sequence or replace by the [REPLACEMENT_BYTE_SEQUENCE]
 * @return the encoded [ByteArray]
 */
internal fun encodeUtf8(string: String, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray { require(startIndex >= 0 &&
startIndex <= endIndex

val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)
var byteIndex = 0
var charIndex = startIndex
while (charIndex < endIndex) {
    val code =
        string[charIndex++].toInt()
    when {
        code < 0x80 ->
            bytes[byteIndex++] = code.toByte()
        code < 0x800 -> {
            bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()
            bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()
        }
        code < 0xD800 || code >= 0xE000 -> {
            bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()
            bytes[byteIndex++] = (((code shr 6) and 0x3F) or 0x80).toByte()
            bytes[byteIndex++] = (((code and 0x3F) or 0x80).toByte()
        }
        else -> {
            // Surrogate char value
            var codePoint = codePointFromSurrogate(string, code, charIndex, endIndex, throwOnMalformed)
            if (codePoint <= 0) {
                bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[0]
                bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[1]
                bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[2]
            } else {
                bytes[byteIndex++] = ((codePoint shr 18) or 0xF0).toByte()
                bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()
                bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()
                bytes[byteIndex++] = (codePoint and 0x3F).toByte()
                charIndex++
            }
        }
    }
}
return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)

/**
 * The character a malformed UTF-8 byte sequence is replaced by.
 */
private const val REPLACEMENT_CHAR = '\uFFFD'

/**
 * Decodes the UTF-8 [bytes] array and returns the resulting [String].
 *
 * @param bytes the byte array to decode.
 * @param startIndex the start offset (inclusive) of the array to be decoded.
 * @param endIndex the end offset (exclusive) of the array to be encoded.
 * @param throwOnMalformed whether to throw on malformed byte sequence or replace by the [REPLACEMENT_CHAR].
 * @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.
 */
internal fun decodeUtf8(bytes: ByteArray, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {
    require(startIndex >= 0 && endIndex <= bytes.size && startIndex <= endIndex)

    var byteIndex = startIndex
    val stringBuilder = StringBuilder()
    while (byteIndex < endIndex) {
        val byte = bytes[byteIndex++].toInt()
        when {
            byte >= 0 ->
                stringBuilder.append(byte.toChar())
            byte shr 5 == -2 -> {
                val code =
                    codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)
                if (code <= 0) {
                    stringBuilder.append(REPLACEMENT_CHAR)
                    byteIndex += -code
                } else {
                    stringBuilder.append(REPLACEMENT_CHAR)
                    byteIndex += -code
                }
            }
            byte shr 4 == -2 - > {
                val code =
                    codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)
                if (code <= 0) {
                    stringBuilder.append(REPLACEMENT_CHAR)
                    byteIndex += -code
                } else {
                    stringBuilder.append(REPLACEMENT_CHAR)
                    byteIndex += -code
                }
            }
            byte shr 3 == -2 -> {
                val code =
                    codePointFrom4(bytes, byte, byteIndex, endIndex, throwOnMalformed)
                if (code <= 0) {
                    stringBuilder.append(REPLACEMENT_CHAR)
                    byteIndex += -code
                } else {
                    stringBuilder.append(REPLACEMENT_CHAR)
                    byteIndex += -code
                }
            }
            else -> {
                val char = bytes[byteIndex++].toInt()
                val codePoint = codePointFromChar(char)
                if (codePoint <= 0) {
                    stringBuilder.append(REPLACEMENT_CHAR)
                    byteIndex += -code
                } else {
                    stringBuilder.append(REPLACEMENT_CHAR)
                    byteIndex += -code
                }
            }
        }
    }
    return stringBuilder.toString()
}
always equal to 24 hours.
*/
    DAYS(86400e9);
)

    private val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)
    return when {
        sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)
        sourceCompareTarget < 0 -> value /
        (targetUnit.scale / sourceUnit.scale)
    else -> value
    }

    @SinceKotlin("1.3")
    @ExperimentalTime
    internal actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {
        val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)
        return when {
            sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)
            sourceCompareTarget < 0 -> value /
            (targetUnit.scale / sourceUnit.scale)
        else -> value
        }

    @SinceKotlin("1.3")
    @ExperimentalTime
    internal actual fun formatToExactDecimals(value: Double, decimals: Int): String {
        val rounded = if (decimals == 0) {
            value
        } else {
            val pow = 10.0.pow(decimals)
            kotlin.js.Math.round(abs(value) * pow) / pow * sign(value)
        }
        return rounded.asDynamic().toFixed(decimals).unsafeCast<String>()
    }

    @SinceKotlin("1.3")
    @ExperimentalTime
    internal actual fun formatUpToDecimals(value: Double, decimals: Int): String {
        return value.asDynamic().toLocaleString("en-us", json("maximumFractionDigits" to decimals)).unsafeCast<String>()
    }

    @SinceKotlin("1.3")
    @ExperimentalTime
    internal actual fun formatScientific(value: Double): String {
        return value.asDynamic().toExponential(2).unsafeCast<String>("\n    ")
    }

    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)
            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>("\n    ")
    }

    internal actual fun formatScientific(value: Double): String {
        return value.asDynamic().toExponential(2).unsafeCast<String>("\n    ")
    }

    package org.w3c.dom
    import kotlin.js.*
    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.html.*
    import org.w3c.html.elements.*
    import org.w3c.html.events.*
    import org.w3c.html.template.*
    import org.w3c.html.types.*

    @deprecated("UnionMessagePortOrWindowProxy instead.", ReplaceWith("UnionMessagePortOrWindowProxy") typemalias)
    replaceWith("UnionMessagePortOrWindowProxy")

    @Typealias
    var HTMLLinkElement.as_
        get() = `as`
        set(value) {
            `as` = value
        }

    @Typealias
    var ElementCreationOptions.is_
        get() = `is`
        set(value) {
            `is` = value
        }
org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external interface WebGLContextAttributes {
    val alpha: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    val depth: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    val stencil: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    val antialias: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    val premultipliedAlpha: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    val preserveDrawingBuffer: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    val preferLowPowerToHighPerformance: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    val failIfMajorPerformanceCaveat: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["alpha"] = alpha
    o["depth"] = depth
    o["stencil"] = stencil
    o["antialias"] = antialias
    o["premultipliedAlpha"] = premultipliedAlpha
    o["preserveDrawingBuffer"] = preserveDrawingBuffer
    o["preferLowPowerToHighPerformance"] = preferLowPowerToHighPerformance
    o["failIfMajorPerformanceCaveat"] = failIfMajorPerformanceCaveat
    return o
}

public external abstract class WebGLObject

/**
 * Exposes the JavaScript [WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin
 */
public external abstract class WebGLBuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin
 */
public external abstract class WebGLFramebuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin
 */
public external abstract class WebGLProgram : WebGLObject

/**
 * Exposes the JavaScript [WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin
 */
public external abstract class WebGLRenderbuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin
 */
public external abstract class WebGLShader : WebGLObject

/**
 * Exposes the JavaScript [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin
 */
public external abstract class WebGLTexture : WebGLObject

/**
 * Exposes the JavaScript [WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin
 */
public external abstract class WebGLUniformLocation

/**
 * Exposes the JavaScript [WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin
 */
public external abstract class WebGLActiveInfo {
    open val size: Int
    open val type: Int
    open val name: String
}

/**
 * Exposes the JavaScript [WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to Kotlin
 */
public external abstract class WebGLShaderPrecisionFormat {
    val open val size: Int
    val open val type: Int
    val open val rangeMin: Int
    val open val rangeMax: Int
    val open val precision: String
    @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
}

public external interface WebGLRenderingContextBase {
    val canvas: HTMLCanvasElement
    val drawingBufferWidth: Int
    fun getContextAttributes(): WebGLContextAttributes?
    fun isContextLost(): Boolean
    fun getSupportedExtensions(): Array<String>?
    fun getExtension(name: String): dynamic
    fun activeTexture(texture: Int)
    fun attachShader(program: WebGLProgram?, shader: WebGLShader?)
    fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String)
    fun bindBuffer(target: Int, buffer: WebGLBuffer?)
    fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)
}
bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)
fun bindTexture(target: Int, texture: WebGLTexture?)
fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)
fun blendEquation(mode: Int)
fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)
fun blendFunc(sfactor: Int, dfactor: Int)
fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha: Int)
fun bufferData(target: Int, size: Int, usage: Int?)
fun bufferData(target: Int, data: BufferDataSource?, usage: Int?)
fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)
fun checkFramebufferStatus(target: Int): Int?
fun clear(mask: Int)
fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)
fun clearDepth(depth: Float)
fun clearStencil(s: Int)
fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean)
fun compileShader(shader: WebGLShader?)
fun createBuffer(): WebGLBuffer?
fun createFramebuffer(): WebGLFramebuffer?
fun createProgram(): WebGLProgram?
fun createRenderbuffer(): WebGLRenderbuffer?
fun createShader(type: Int): WebGLShader?
fun cullFace(mode: Int)
fun deleteBuffer(buffer: WebGLBuffer?)
fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)
fun deleteProgram(program: WebGLProgram?)
fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)
fun deleteShader(shader: WebGLShader?)
fun depthFunc(func: Int)
fun depthMask(flag: Boolean)
fun depthRange(zNear: Float, zFar: Float)
fun detachShader(program: WebGLProgram?, shader: WebGLShader?)
fun disable(cap: Int)
fun disableVertexAttribArray(index: Int)
fun drawArrays(mode: Int, count: Int)
fun drawElements(mode: Int, count: Int)
fun enable(cap: Int)
fun enableVertexAttribArray(index: Int)
fun enableVertexAttribArray(index: Int)
fun finish()
fun framebufferRenderbuffer(target: Int, attachment: Int, renderbuffer: WebGLFramebuffer?)
fun framebufferTexture2D(target: Int, attachment: Int, texture: WebGLTexture?)
fun generateMipmap(target: Int)
fun getActiveAttrib(program: WebGLProgram?, index: Int)
fun getActiveUniform(program: WebGLProgram?, index: Int)
fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?
fun getAttribLocation(program: WebGLProgram?, name: String)
fun getBufferParameter(target: Int, name: Int)
fun getBufferParameter(target: Int, name: Int)
fun getBufferParameter(target: Int, name: Int)
fun getBufferParameter(target: Int, name: Int)
fun getShaderParameter(shader: WebGLShader?, pname: Int)
fun getShaderPrecisionFormat(shadertype: Int, precisiontype: Int)
fun getShaderSource(shader: WebGLShader?)
fun getTexParameter(target: Int, pname: Int)
fun getUniformLocation(program: WebGLProgram?, name: String)
fun isBuffer(buffer: WebGLBuffer?)
fun isEnabled(cap: Int)
fun isFramebuffer(framebuffer: WebGLFramebuffer?)
fun isProgram(program: WebGLProgram?)
fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?)
fun isTexture(texture: WebGLTexture?)
fun lineWidth(width: Float)
fun linkProgram(program: WebGLProgram?)
fun pixelStorei(pname: Int, param: Int)
fun polygonOffset(factor: Float, units: Float)
fun readPixels(x: Int, y: Int, width: Int, height: Int)
fun renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)
fun sampleCoverage(value: Float, invert: Boolean)
fun scissor(x: Int, y: Int, width: Int, height: Int)
source: String)n
fun stencilFunc(func: Int, ref: Int, mask: Int)n
fun stencilFuncSeparate(face: Int, func: Int, ref: 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, 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 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
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 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?)

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
fun companion object {
    val DEPTH_BUFFER_BIT: Int
    val STENCIL_BUFFER_BIT: Int
    val COLOR_BUFFER_BIT: Int
    val POINTS: Int
    val LINES: Int
    val LINE_LOOP: Int
    val TRIANGLES: Int
    val SRC_COLOR: Int
    val ONE_MINUS_SRC_COLOR: Int
    val SRC_ALPHA: Int
    val ONE_MINUS_SRC_ALPHA: Int
    val DST_COLOR: Int
    val ONE_MINUS_DST_COLOR: Int
    val SRC_ALPHA_SATURATE: Int
    val FUNC_ADD: Int
    val BLEND_EQUATION: Int
    val BLEND_EQUATION_RGB: Int
    val BLEND_EQUATION_ALPHA: Int
    val FUNC_SUBTRACT: Int
    val FUNC_REVERSE_SUBTRACT: Int
}
ONE_MINUS_CONSTANT_COLOR: Int
ONE_MINUS_CONSTANT_ALPHA: Int
val BLEND_COLOR: Int
val BLEND_ALPHA: Int
val ARRAY_BUFFER: Int
val ELEMENT_ARRAY_BUFFER: Int
val ARRAY_BUFFER_BINDING: Int
val ELEMENT_ARRAY_BUFFER_BINDING: Int
val STREAM_DRAW: Int
val STATIC_DRAW: Int
val DYNAMIC_DRAW: Int
val BUFFER_SIZE: Int
val BUFFER_USAGE: Int
val CURRENT_VERTEX_ATTRIB: Int
val FRONT: Int
val BACK: Int
val FRONT_AND_BACK: Int
val CULL_FACE: Int
val BLEND: Int
val DITHER: Int
val STENCIL_TEST: Int
val DEPTH_TEST: Int
val SCISSOR_TEST: Int
val SAMPLE_ALPHA_TO_COVERAGE: Int
val SAMPLE_COVERAGE: Int
val NO_ERROR: Int
val INVALID_ENUM: Int
val INVALID_VALUE: Int
val INVALID_OPERATION: Int
val OUT_OF_MEMORY: Int
val ALIASED_POINT_SIZE_RANGE: Int
val ALIASED_LINE_WIDTH_RANGE: Int
val CULL_FACE_MODE: Int
val FRONT_FACE: Int
val DEPTH_RANGE: Int
val DEPTH_WRITEMASK: Int
val DEPTH_CLEAR_VALUE: Int
val DEPTH_FUNC: Int
val STENCIL_CLEAR_VALUE: Int
val STENCIL_FUNC: Int
val STENCIL_FAIL: Int
val STENCIL_PASS_DEPTH_FAIL: Int
val STENCIL_PASS_DEPTH_PASS: Int
val STENCIL_REF: Int
val STENCIL_VALUE_MASK: Int
val STENCIL_BACK_FUNC: Int
val STENCIL_BACK_FAIL: Int
val STENCIL_BACK_PASS_DEPTH_FAIL: Int
val STENCIL_BACK_PASS_DEPTH_PASS: Int
val STENCIL_BACK_REF: Int
val STENCIL_BACK_VALUE_MASK: Int
val VIEWPORT: Int
val SCISSOR_BOX: Int
val COLOR_CLEAR_VALUE: Int
val COLOR_WRITEMASK: Int
val UNPACK_ALIGNMENT: Int
val PACK_ALIGNMENT: Int
val MAX_TEXTURE_SIZE: Int
val MAX_VIEWPORT_DIMS: Int
val SUBPIXEL_BITS: Int
val RED_BITS: Int
val GREEN_BITS: Int
val BLUE_BITS: Int
val ALPHA_BITS: Int
val DEPTH_BITS: Int
val STENCIL_BITS: Int
val POLYGON_OFFSET_UNITS: Int
val POLYGON_OFFSET_FACTOR: Int
val TEXTURE_BINDING_2D: Int
val SAMPLE_BUFFERS: Int
val SAMPLES: Int
val SAMPLE_COVERAGE_VALUE: Int
val SAMPLE_COVERAGE_INVERT: Int
val COMPRESSED_TEXTURE_FORMATS: Int
val DONT_CARE: Int
val FASTEST: Int
val NICEST: Int
val GENERATE_MIPMAP_HINT: Int
val BYTE: Int
val UNSIGNED_BYTE: Int
val SHORT: Int
val UNSIGNED_SHORT: Int
val INT: Int
val UNSIGNED_INT: Int
val FLOAT: Int
val DEPTH_COMPONENT: Int
val RGBA: Int
val LUMINANCE: Int
val LUMINANCE_ALPHA: Int
val UNSIGNED_SHORT_4_4_4_4: Int
val UNSIGNED_SHORT_5_6_5: Int
val UNSIGNED_SHORT_5_5_5_1: Int
val FRAGMENT_SHADER: Int
val VERTEX_SHADER: Int
val MAX_VERTEX_ATTRIBS: Int
val MAX_VERTEX_UNIFORM_VECTORS: Int
val MAX_VARYING_VECTORS: Int
val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int
val MAX_VERTEX_ATTRIBS: Int
val MAX_TEXTURE_IMAGE_UNITS: Int
val MAX_FRAGMENT_UNIFORM_VECTORS: Int
val SHADER_TYPE: Int
val DELETE_STATUS: Int
val LINK_STATUS: Int
val VALIDATE_STATUS: Int
val SHADING_LANGUAGE_VERSION: Int
val CURRENT_PROGRAM: Int
val NEVER: Int
val LESS: Int
val EQUAL: Int
val LEQUAL: Int
val GREATER: Int
val NOTEQUAL: Int
val GEQUAL: Int
val ALWAYS: Int
val KEEP: Int
val REPLACE: Int
val INCR: Int
val DEC: Int
val INVERT: Int
val INCR_WRAP: Int
val DEC_WRAP: Int
val VENDOR: Int
val RENDERER: Int
val VERSION: Int
val NEAREST: Int
val LINEAR: Int
val NEAREST_MIPMAP_NEAREST: Int
val LINEAR_MIPMAP_NEAREST: Int
val NEAREST_MIPMAP_LINEAR: Int
val LINEAR_MIPMAP_LINEAR: Int
TEXURE_MAG_FILTER: Int
        val TEXTURE_MIN_FILTER: Int
        val TEXTURE_WRAP_S: Int
        val TEXTURE_WRAP_T: Int
        val TEXTURE_2D: Int
        val TEXTURE_CUBE_MAP: Int
        val TEXTURE_CUBE_MAP_POSITIVE_X: Int
        val TEXTURE_CUBE_MAP_NEGATIVE_X: Int
        val TEXTURE_CUBE_MAP_POSITIVE_Y: Int
        val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int
        val TEXTURE_CUBE_MAP_POSITIVE_Z: Int
        val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int
        val MAX_CUBE_MAP_TEXTURE_SIZE: Int
        val TEXTURE0: Int
        val TEXTURE1: Int
        val TEXTURE2: Int
        val TEXTURE3: Int
        val TEXTURE4: Int
        val TEXTURE5: Int
        val TEXTURE6: Int
        val TEXTURE7: Int
        val TEXTURE8: Int
        val TEXTURE9: Int
        val TEXTURE10: Int
        val TEXTURE11: Int
        val TEXTURE12: Int
        val TEXTURE13: Int
        val TEXTURE14: Int
        val TEXTURE15: Int
        val TEXTURE16: Int
        val TEXTURE17: Int
        val TEXTURE18: Int
        val TEXTURE19: Int
        val TEXTURE20: Int
        val TEXTURE21: Int
        val TEXTURE22: Int
        val TEXTURE23: Int
        val TEXTURE24: Int
        val TEXTURE25: Int
        val TEXTURE26: Int
        val TEXTURE27: Int
        val TEXTURE28: Int
        val TEXTURE29: Int
        val TEXTURE30: Int
        val TEXTURE31: Int
        val ACTIVE_TEXTURE: Int
        val REPEAT: Int
        val CLAMP_TO_EDGE: Int
        val MIRRORED_REPEAT: Int
        val FLOAT_VEC2: Int
        val FLOAT_VEC3: Int
        val FLOAT_VEC4: Int
        val INT_VEC2: Int
        val INT_VEC3: Int
        val INT_VEC4: Int
        val BOOL: Int
        val BOOL_VEC2: Int
        val BOOL_VEC3: Int
        val BOOL_VEC4: Int
        val FLOAT_MAT2: Int
        val FLOAT_MAT3: Int
        val FLOAT_MAT4: Int
        val SAMPLER_2D: Int
        val SAMPLER_CUBE: Int
        val VERTEX_ATTRIB_ARRAY_ENABLED: Int
        val VERTEX_ATTRIB_ARRAY_SIZE: Int
        val VERTEX_ATTRIB_ARRAY_STRIDE: Int
        val VERTEX_ATTRIB_ARRAY_TYPE: Int
        val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int
        val VERTEX_ATTRIB_ARRAY_POINTER: Int
        val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int
        val IMPLEMENTATION_COLOR_READ_TYPE: Int
        val IMPLEMENTATION_COLOR_READ_FORMAT: Int
        val LOW_FLOAT: Int
        val MEDIUM_FLOAT: Int
        val HIGH_FLOAT: Int
        val LOW_INT: Int
        val MEDIUM_INT: Int
        val HIGH_INT: Int
        val FRAMEBUFFER: Int
        val RENDERBUFFER: Int
        val RGBA4: Int
        val RGB5_A1: Int
        val RGB565: Int
        val DEPTH_COMPONENT16: Int
        val STENCIL_INDEX: Int
        val STENCIL_INDEX8: Int
        val DEPTH_STENCIL: Int
        val RENDERBUFFER_WIDTH: Int
        val RENDERBUFFER_HEIGHT: Int
        val RENDERBUFFER_INTERNAL_FORMAT: Int
        val RENDERBUFFER_RED_SIZE: Int
        val RENDERBUFFER_GREEN_SIZE: Int
        val RENDERBUFFER_BLUE_SIZE: Int
        val RENDERBUFFER_ALPHA_SIZE: Int
        val RENDERBUFFER_DEPTH_SIZE: Int
        val RENDERBUFFER_STENCIL_SIZE: Int
        val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int
        val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int
        val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int
        val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int
        val COLOR_ATTACHMENT0: Int
        val DEPTH_ATTACHMENT: Int
        val STENCIL_ATTACHMENT: Int
        val DEPTH_STENCIL_ATTACHMENT: Int
        val NONE: Int
        val FRAMEBUFFER_COMPLETE: Int
        val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int
        val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int
        val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int
        val FRAMEBUFFER_UNSUPPORTED: Int
        val FRAMEBUFFER_BINDING: Int
        val RENDERBUFFER_BINDING: Int
        val MAX_RENDERBUFFER_SIZE: Int
        val INVALID_FRAMEBUFFER_OPERATION: Int
        val UNPACK_FLIP_Y_WEBGL: Int
        val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int
        val CONTEXT_LOST_WEBGL: Int
        val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int
        val BROWSER_DEFAULT_WEBGL: Int
        val UNPACK_FILE_WEBGL: Int

        /**
         * Exposes the JavaScript
         */
        [WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin

MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int
MAX_FRAGMENT_UNIFORM_VECTORS: Int
SHADER_TYPE: Int
DELETE_STATUS: Int
LINK_STATUS: Int
VALIDATE_STATUS: Int
ATTACHED_SHADERS: Int
ACTIVE_UNIFORMS: Int
ACTIVE_ATTRIBUTES: Int
SHADING_LANGUAGE_VERSION: Int
CURRENT_PROGRAM: Int
NEVER: Int
LESS: Int
EQUAL: Int
LEQUAL: Int
GREATER: Int
NOTEQUAL: Int
GEQUAL: Int
ALWAYS: Int
KEEP: Int
REPLACE: Int
INCR: Int
INCR_WRAP: Int
DECR: Int
INVERT: Int
INCR_WRAP: Int
VENDOR: Int
RENDERER: Int
VERSION: Int
NEAREST_MIPMAP_NEAREST: Int
LINEAR_MIPMAP_NEAREST: Int
NEAREST_MIPMAP_LINEAR: Int
LINEAR_MIPMAP_LINEAR: Int
TEXTURE_MAG_FILTER: Int
TEXTURE_MIN_FILTER: Int
TEXTURE_WRAP_S: Int
TEXTURE_WRAP_T: Int
TEXTURE_2D: Int
TEXTURE: Int
TEXTURE_CUBE_MAP: Int
TEXTURE_BINDING_CUBE_MAP: Int
TEXTURE_CUBE_MAP_POSITIVE_X: Int
TEXTURE_CUBE_MAP_NEGATIVE_X: Int
TEXTURE_CUBE_MAP_POSITIVE_Y: Int
TEXTURE_CUBE_MAP_NEGATIVE_Y: Int
TEXTURE_CUBE_MAP_POSITIVE_Z: Int
TEXTURE_CUBE_MAP_NEGATIVE_Z: Int
MAX_CUBE_MAP_TEXTURE_SIZE: Int
TEXTURE0: Int
TEXTURE1: Int
TEXTURE2: Int
TEXTURE3: Int
TEXTURE4: Int
TEXTURE5: Int
TEXTURE6: Int
TEXTURE7: Int
TEXTURE8: Int
TEXTURE9: Int
TEXTURE10: Int
TEXTURE11: Int
TEXTURE12: Int
TEXTURE13: Int
TEXTURE14: Int
TEXTURE15: Int
TEXTURE16: Int
TEXTURE17: Int
TEXTURE18: Int
TEXTURE19: Int
TEXTURE20: Int
TEXTURE21: Int
TEXTURE22: Int
TEXTURE23: Int
TEXTURE24: Int
TEXTURE25: Int
TEXTURE26: Int
TEXTURE27: Int
TEXTURE28: Int
TEXTURE29: Int
TEXTURE30: Int
TEXTURE31: Int
ACTIVE_TEXTURE: Int
REPEAT: Int
CLAMP_TO_EDGE: Int
MIRRORED_REPEAT: Int
FLOAT_VEC2: Int
FLOAT_VEC3: Int
FLOAT_VEC4: Int
INT_VEC2: Int
INT_VEC3: Int
INT_VEC4: Int
BOOL: Int
BOOL_VEC2: Int
BOOL_VEC3: Int
BOOL_VEC4: Int
SAMPLER_2D: Int
SAMPLER_CUBE: Int
VERTEX_ATTRIB_ARRAY_ENABLED: Int
VERTEX_ATTRIB_ARRAY_SIZE: Int
VERTEX_ATTRIB_ARRAY_STRIDE: Int
VERTEX_ATTRIB_ARRAY_TYPE: Int
VERTEX_ATTRIB_ARRAY_NORMALIZED: Int
VERTEX_ATTRIB_ARRAY_POINTER: Int
VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int
IMPLEMENTATION_COLOR_READ_TYPE: Int
IMPLEMENTATION_COLOR_READ_FORMAT: Int
COMPILE_STATUS: Int
LOW_FLOAT: Int
MEDIUM_FLOAT: Int
HIGH_FLOAT: Int
LOW_INT: Int
MEDIUM_INT: Int
HIGH_INT: Int
FRAMEBUFFER: Int
RENDERBUFFER: Int
RGB4: Int
RGB5_A1: Int
RGB565: Int
DEPTH_COMPONENT16: Int
STENCIL_INDEX: Int
STENCIL_INDEX8: Int
DEPTH_STENCIL: Int
RENDERBUFFER_WIDTH: Int
RENDERBUFFER_HEIGHT: Int
RENDERBUFFER_INTERNAL_FORMAT: Int
RENDERBUFFER_RED_SIZE: Int
RENDERBUFFER_GREEN_SIZE: Int
RENDERBUFFER_BLUE_SIZE: Int
RENDERBUFFER_ALPHA_SIZE: Int
RENDERBUFFER_DEPTH_SIZE: Int
RENDERBUFFER_STENCIL_SIZE: Int
FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int
FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int
COLOR_ATTACHMENT0:
```kotlin
Int\nval DEPTH_ATTACHMENT: Int
val STENCIL_ATTACHMENT: Int
val DEPTH_STENCIL_ATTACHMENT: Int
val NONE: Int
val FRAMEBUFFER_COMPLETE: Int
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int
val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int
val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int
val FRAMEBUFFER_UNSUPPORTED: Int
val FRAGMENT_SHADER: Int
val VERTEX_SHADER: Int
val PROGRAM: Int
val PROGRAM_ERROR: Int
val PROGRAM_COMPILE: Int
val PROGRAM_LINK: Int
val SHADER_COMPILER: Int
val FRAMEBUFFER_BINDING: Int
val RENDERBUFFER_BINDING: Int
val MAX_RENDERBUFFER_SIZE: Int
val INVALID_FRAMEBUFFER_OPERATION: Int
val UNPACK_FLIP_Y_WEBGL: Int
val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int
val CONTEXT_LOST_WEBGL: Int
val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int

/**
 * Exposes the JavaScript [WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin
 */
public external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event {
    open val statusMessage: String

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface WebGLContextEventInit : EventInit {
    var statusMessage: String? /* = "" */
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["statusMessage"] = statusMessage
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin
 */
public external open class ArrayBuffer(length: Int) : BufferDataSource {
    open val byteLength: Int
    fun slice(begin: Int, end: Int = definedExternally): ArrayBuffer

    companion object {
        fun isView(value: Any?): Boolean
    }
}

/**
 * Exposes the JavaScript [ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin
 */
public external interface ArrayBufferView : BufferDataSource {
    val buffer: ArrayBuffer
    val byteOffset: Int
    val byteLength: Int
    fun set(array: ArrayBufferView, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): ArrayBufferView

    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Int8Array.get(index: Int): Byte = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Uint8Array.get(index: Int): Byte = asDynamic()[index]

/**
 * Exposes the JavaScript [Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin
 */
public external open class Uint8ClampedArray : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint8ClampedArray)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Uint8ClampedArray, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Uint8ClampedArray

    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]
```

---

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set(array: Array<Float>, offset: Int = definedExternally) fun subarray(start: Int, end: Int): Float32Array

companion object {
    val BYTES_PER_ELEMENT: Int
}

@kotlin.internal.InlineOnly
public inline operator fun Float32Array.get(index: Int): Float = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Float32Array.set(index: Int, value: Float) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript [Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin
 */
public external open class Float64Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Float64Array)
    constructor(array: Array<Double>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Float64Array, offset: Int = definedExternally)
    fun set(array: Array<Double>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Float64Array

    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@kotlin.internal.InlineOnly
public inline operator fun Float64Array.get(index: Int): Double = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Float64Array.set(index: Int, value: Double) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript [DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin
 */
public external open class DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) : ArrayBufferView {
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun getInt8(byteOffset: Int): Byte
    fun getUint8(byteOffset: Int): Byte
    fun getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short
    fun getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short
    fun getInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int
    fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int
    fun getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float
    fun getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double
    fun setInt8(byteOffset: Int, value: Byte)
    fun setUint8(byteOffset: Int, value: Byte)
    fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)
    fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)
    fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)
    fun setUint32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)
    fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean = definedExternally)
    fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean = definedExternally)
}

public external interface BufferDataSource

public external interface TexImageSource
Kotlin

/*
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 */

// NOTE: THIS FILE IS AUTO-
// GENERATED, DO NOT EDIT!
// See github.com/kotlin/dukat for details

package org.w3c.dom.css

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.events.*
import org.w3c.dom.mediacapture.*
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 abstract class MediaList : ItemArrayLike<String> {
    open var mediaText: String
    fun appendMedium(medium: String)
    fun deleteMedium(medium: String)
    override fun item(index: Int): String?
}

@kotlin.internal.InlineOnly
public inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]

/**
 * Exposes the JavaScript
 * [StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin
 */
public external abstract class StyleSheet {
    open val type: String
    open var disabled: Boolean
    open val href: String?
    open val ownerNode: UnionElementOrProcessingInstruction?
    open val parentStyleSheet: StyleSheet?
    open val title: String?
    open val media: MediaList
}

/**
 * Exposes the JavaScript
 * [CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin
 */
public external abstract class CSSStyleSheet : StyleSheet {
    open val ownerRule: CSSRule?
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)
}

/**
 * Exposes the
 * JavaScript
 * [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin
 */
public external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {
    override fun item(index: Int): StyleSheet?
}

@kotlin.internal.InlineOnly
public inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]

/**
 * Exposes the JavaScript
 * [LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin
 */
public external interface LinkStyle {
    val sheet: StyleSheet?
        get() = definedExternally
        set(value) = definedExternally
    val sheet: StyleSheet?
}

/**
 * Exposes the JavaScript
 * [CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin
 */
public external abstract class CSSRuleList : ItemArrayLike<CSSRule> {
    override fun item(index: Int): CSSRule?
}

@kotlin.internal.InlineOnly
public inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]

/**
 * Exposes the JavaScript
 * [CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin
 */
public external abstract class CSSRule {
    open val type: Short
    open var cssText: String
    open val parentRule: CSSRule?
    open val parentStyleSheet: CSSStyleSheet?
    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val FONT_FACE_RULE: Short
        val PAGE_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}

/**
 * Exposes the JavaScript
 * [CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin
 */
public external abstract class CSSStyleRule : CSSRule {
    open var selectorText: String
    open val style: CSSStyleDeclaration
}

/**
 * Exposes the JavaScript
 * [CSSImportRule](https://developer.mozilla.org/en/docs/Web/API/CSSImportRule) to Kotlin
 */
public external abstract class CSSImportRule : CSSRule {
    open val href: String
    open val media: String
    open val type: String
}

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open val clientY: Int
open val ctrlKey: Boolean
open val shiftKey: Boolean
open val altKey: Boolean
open val metaKey: Boolean
open val button: Short
open val button: Short
open val relatedTarget: EventTarget
open val pageX: Double
open val pageY: Double
open val x: Double
open val y: Double
open val offsetX: Double
open val offsetY: Double
fun getModifierState(keyArg: String): Boolean

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface MouseEventInit : EventModifierInit {
    var screenX: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var screenY: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var clientX: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var clientY: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var button: Short? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var buttons: Short? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var relatedTarget: EventTarget? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var region: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    fun getModifierState(keyArg: String): Boolean

    public external interface EventModifierInit : UIEventInit {
    var ctrlKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierAltGraph: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierCapsLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFnLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierHyper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierNumLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierScrollLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSuper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbol: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbolLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

@kotlin.internal.InlineOnly
    var ctrlKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierAltGraph: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierCapsLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierFnLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierHyper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierNumLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierScrollLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSuper: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbol: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbolLock: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var view: Window? = null
        get() = definedExternally
        set(value) = definedExternally
    var detail: Int? = 0
        get() = definedExternally
        set(value) = definedExternally
    var bubbles: Boolean? = false
        get() = definedExternally
        set(value) = definedExternally
    var cancelable: Boolean? = false
        get() = definedExternally
        set(value) = definedExternally
    var composed: Boolean? = false
        get() = definedExternally
        set(value) = definedExternally
    return this
}
    val o = js("({})")
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin
 */
public external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {
    open val deltaX: Double
    open val deltaY: Double
    open val deltaZ: Double

    companion object {
        val DOM_DELTA_PIXEL: Int
        val DOM_DELTA_LINE: Int
        val DOM_DELTA_PAGE: Int
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface WheelEventInit : MouseEventInit {
    var deltaX: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaY: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaZ: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaMode: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["deltaX"] = deltaX
    o["deltaY"] = deltaY
    o["deltaZ"] = deltaZ
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin
 */
public external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {
    open val data: String
    open val isComposing: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface InputEventInit : UIEventInit {
    var data: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var isComposing: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun InputEventInit(data: String? = null, isComposing: Boolean? = false): InputEventInit {
    val o = js("({})")
    o["data"] = data
    o["isComposing"] = isComposing
    return o
}

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    var o = js("({})")
    o["data"] = data
    o["isComposing"] = isComposing
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript
 * InputEventInit to Kotlin
 */
public external class InputEventInit {
    val o: InputEventInit
    val data: String? = ""
    val isComposing: Boolean? = false
    val view: Window? = null
    val detail: Int? = 0
    val bubbles: Boolean? = false
    val cancelable: Boolean? = false
    val composed: Boolean? = false
    fun get(): InputEventInit
}

KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {
    var key: String
    var code: String
    var location: Int
    var ctrlKey: Boolean
    var shiftKey: Boolean
    var altKey: Boolean
    var metaKey: Boolean
    var repeat: Boolean
    var isComposing: Boolean
    var charCode: Int
    var keyCode: Int
    var which: Int
    getModifierState(keyArg: String): Boolean
}

/**
 * Exposes the JavaScript
 * KeyboardEvent to Kotlin
 */
public external class KeyboardEventInit : EventModifierInit {
    var key: String? = ""
    var code: String? = ""
    var location: Int? = 0
    var repeat: Boolean? = false
    var isComposing: Boolean? = false
    var ctrlKey: Boolean? = false
    var shiftKey: Boolean? = false
    var altKey: Boolean? = false
    var metaKey: Boolean? = false
    var modifierAltGraph: Boolean? = false
    var modifierCapsLock: Boolean? = false
    var modifierFn: Boolean? = false
    var modifierHyper: Boolean? = false
    var modifierNumLock: Boolean? = false
    var modifierScrollLock: Boolean? = false
    var modifierSuper: Boolean? = false
    var modifierSymbol: Boolean? = false
    var view: Window? = null
    var detail: Int? = 0
    var bubbles: Boolean? = false
    var cancelable: Boolean? = false
    var composed: Boolean? = false
    fun get(): KeyboardEventInit
}

CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) : UIEvent {
    var data: String
    var view: View
    var detail: Int
    var bubbles: Boolean
    var cancelable: Boolean
    var composed: Boolean
    fun get(): CompositionEventInit
}

Event(type: String, eventInitDict: EventInit = definedExternally) {
    var type: String
    var target: Element
    fun get(): Event
}
EventTarget?
open val currentTarget: EventTarget?
open val eventPhase: Short
open val cancelable: Boolean
open val defaultPrevented: Boolean
open val composed: Boolean
open val isTrusted: Boolean
open val timeStamp: Number
fun composedPath(): Array<EventTarget>
fun stopPropagation()
fun stopImmediatePropagation()
fun preventDefault()

fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)

companion object {
val NONE: Short
val CAPTURING_PHASE: Short
val AT_TARGET: Short
val BUBBLING_PHASE: Short
}

/**
 * Exposes the JavaScript
[EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin
 */
public external abstract class EventTarget {
    fun addEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)
    fun addEventListener(type: String, callback: (Event) -> Unit?, options: dynamic = definedExternally)
    fun removeEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)
    fun removeEventListener(type: String, callback: (Event) -> Unit?, options: dynamic = definedExternally)
    fun dispatchEvent(event: Event): Boolean
}

/**
 * Exposes the JavaScript
[EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin
 */
public external interface EventListener {
    fun handleEvent(event: Event)
}

/*
 * Copyright 2010-2019 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](https://github.com/kotlin/dukat) for details.
 */

package org.w3c.dom

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
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 abstract class HTMLAllCollection {
    open val length: Int
    fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?
    fun namedItem(name: String): UnionElementOrHTMLCollection?
}

@kotlin.internal.InlineOnly
public inline operator fun HTMLAllCollection.get(index: Int): Element? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]

/**
 * Exposes the JavaScript
[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection)
to Kotlin
 */
public external abstract class HTMLFormControlsCollection : HTMLCollection

/**
 * Exposes the JavaScript
[RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin
 */
public external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {
    open var value: String
}

/**
 * Exposes the JavaScript
[HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin
 */
public external abstract class HTMLOptionsCollection : HTMLCollection {
    override var length: Int
    open var selectedIndex: Int
    fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)
    fun remove(index: Int)
}

@kotlin.internal.InlineOnly
public inline operator fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }

/**
 * Exposes the JavaScript
[HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin
 */
public external abstract class HTMLElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers, ElementContentEditable, ElementCSSInlineStyle { open var title: String
open var lang: String
open var translate: Boolean
open var dir: String
open var dataset: DOMStringMap
open var hidden: Boolean
open var tabIndex: Int
open var accessKey: String
open var draggable: Boolean
open var dropzone: DOMTokenList
open var contextMenu: HTMLMenuElement?
open var spellcheck: Boolean
open var innerText: String
open var offsetParent: Element?
open var offsetTop: Int
open var offsetLeft: Int
open var offsetWidth: Int
open var offsetHeight: Int
fun click()

/**
 * Exposes the JavaScript [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin */

@kotlin.internal.InlineOnly
public inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]

@kotlin.internal.InlineOnly
public inline operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }

/**
 * Exposes the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin */

@kotlin.internal.InlineOnly
public inline operator fun HTMLHtmlElement.get(name: String): String? = asDynamic()[name]

@kotlin.internal.InlineOnly
public inline operator fun HTMLHtmlElement.set(name: String, value: String) { asDynamic()[name] = value }

/**
 * Exposes the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin */

@kotlin.internal.InlineOnly
public inline operator fun HTMLHeadElement.get(name: String): String? = asDynamic()[name]

@kotlin.internal.InlineOnly
public inline operator fun HTMLHeadElement.set(name: String, value: String) { asDynamic()[name] = value }

/**
 * Exposes the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin */

@kotlin.internal.InlineOnly
public inline operator fun HTMLTitleElement.get(name: String): String? = asDynamic()[name]

@kotlin.internal.InlineOnly
public inline operator fun HTMLTitleElement.set(name: String, value: String) { asDynamic()[name] = value }
external abstract class HTMLTitleElement : HTMLElement {
    open var text: 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 [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin
 */
public external abstract class HTMLBaseElement : HTMLElement {
    open var href: String
    open var target: 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 [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin
 */
public external abstract class HTMLLinkElement : HTMLElement, LinkStyle {
    open var href: String
    open var crossOrigin: String?
    open var rel: String
    open var `as`: RequestDestination
    open val relList: DOMTokenList
    open var media: String
    open var nonce: String
    open var hreflang: String
    open var type: String
    open val sizes: DOMTokenList
    open var referrerPolicy: String
    open var charset: String
    open var rev: String
    open var target: String
    open var scope: String
    open var workerType: WorkerType

    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 [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin
 */
public external abstract class HTMLMetaElement : HTMLElement {
    open var name: String
    open var httpEquiv: String
    open var content: String
    open var scheme: 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
[HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin
 */
public external abstract class HTMLStyleElement : HTMLElement, LinkStyle {
    open var media: String
    open var nonce: String
    open var type: 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
[HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin
 */
public external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {
    open var text: String
    open var link: String
    open var vLink: String
    open var aLink: String
    open var bgColor: String
    open var background: 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
[HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin
 */
public external abstract class HTMLHeadingElement : HTMLElement {
    open var align: 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
[HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin
 */
public external abstract class HTMLParagraphElement : HTMLElement {
    open var align: 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 [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin */

```kotlin
public external abstract class HTMLHRElement : HTMLElement {
    open var align: String
    open var color: String
    open var noShade: Boolean
    open var size: String
    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_FOLLOWING: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}
```

**Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin */

```kotlin
public external abstract class HTMLPreElement : HTMLElement {
    open var width: Int

    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_FOLLOWING: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}
```

**Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin */

```kotlin
public external abstract class HTMLQuoteElement : HTMLElement {
    open var cite: 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_FOLLOWING: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}
```

**Exposes the JavaScript [HTMLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOListElement) to Kotlin */

```kotlin
public external abstract class HTMLOListElement : HTMLElement {
    open var reversed: Boolean
    open var start: Int
    open var type: String
    open var compact: Boolean

    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_FOLLOWING: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}
```

**Exposes the JavaScript [HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin */

```kotlin
public external abstract class HTMLUListElement : HTMLElement {
    open var compact: Boolean
    open var type:
**Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin**

```kotlin
public external abstract class HTMLLIElement : HTMLElement {
    open var value: Int
    open var type: 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
    }
}
```

**Exposes the JavaScript [HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin**

```kotlin
public external abstract class HTMLDListElement : HTMLElement {
    open var compact: Boolean

    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
    }
}
```

**Exposes the JavaScript [HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin**

```kotlin
public external abstract class HTMLDivElement : HTMLElement {
    open var align: 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
    }
}
```

**Exposes the JavaScript [HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin**

```kotlin
public external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils {
    open var target: String
    open var download: String
    open var ping: String
    open var rel: String
    open val relList: DOMTokenList
    open var hreflang: String
    open var type: String
    open var text: String
    open var referrerPolicy: String
    open var coords: String
    open var charset: String
    open var name: String
    open var rev: String
    open var shape: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_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 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 [HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin *
 */
public external abstract class HTMLDataElement : HTMLElement {
    open var value: 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 [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin *
 */
public external abstract class HTMLTimeElement : HTMLElement {
    open var dateTime: 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 [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin *
 */
public external abstract class HTMLSpanElement : HTMLElement {

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 [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin *
 */
public external abstract class HTMLBRElement : HTMLElement {
    open var clear: 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

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null

**Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin**

```kotlin
public external interface HTMLHyperlinkElementUtils {
    var href: String
    val origin: String
    var protocol: String
    var username: String
    var password: String
    var host: String
    var hostname: String
    var port: String
    var pathname: String
    var search: String
    var hash: String
}
```

**Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin**

```kotlin
public external abstract class HTMLModElement : HTMLElement {
    open var cite: String
    open var dateTime: String
}
```

**Exposes the JavaScript [HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin**

```kotlin
public external abstract class HTMLPictureElement : HTMLElement {
}
```

**Exposes the JavaScript [HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin**

```kotlin
public external abstract class HTMLSourceElement : HTMLElement {
}
```

**Exposes the JavaScript [HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin**

```kotlin
public external abstract class HTMLImageElement : HTMLElement, HTMLOrSVGImageElement, TexImageSource {
}
```
width: Int
open var height: Int
open val naturalWidth: Int
open open val naturalHeight: Int
open open val complete: Boolean
open open val currentSrc: String
open var referrerPolicy: String
open var name: String
open var lowsrc: String
open var align: String
open var hspace: Int
open var vspace: Int
open open var longDesc: String
open open var border: String
open open var x: Int
open open val y: Int
open companion object { }

/**
 * Exposes the JavaScript [HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin
*/
public external abstract class HTMLIFrameElement : HTMLElement {
    open var src: String
    open var srcdoc: String
    open var name: String
    open val sandbox: DOMTokenList
    open var allowFullscreen: Boolean
    open var allowUserMedia: Boolean
    open var width: String
    open var height: String
    open var referrerPolicy: String
    open val contentDocument: Document?
    open val contentWindow: Window?
    open var align: String
    open var scrolling: String
    open var frameborder: String
    open var longDesc: String
    open var marginHeight: String
    open var marginWidth: String
    fun getSVGDocument(): Document?

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 [HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin
*/
public external abstract class HTMLEmbedElement : HTMLElement {
    open var src: String
    open var type: String
    open var width: String
    open var height: String
    open var align: String
    open var name: String
    fun getSVGDocument(): Document?

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 [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin
*/
public external abstract class HTMLObjectElement : HTMLElement {
    open var data: String
    open var type: String
    open var typeMustMatch: Boolean
    open var name: String
    open var useMap: String
    open var form: HTMLFormElement?
    open var width: String
    open var height: String
    open val contentDocument: Document?
    open val contentWindow: Window?
    open val willValidate: Boolean
    open val validity: ValidityState
    open val validationMessage: String
    open var align: String
    open var archive:
open var code: String
    open var declare: Boolean
    open var hspace: Int
    open var standby:
    open var vspace: Int
    open var codeBase: String
    open var codeType: String
    open var border:
    fun getSVGDocument(): Document?
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean

    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 [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin
 */
public external abstract class HTMLParamElement : HTMLElement {
    open var name: String
    open var value: String
    open var type: String
    open var valueType: 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 [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin
 */
public external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {
    open var width: Int
    open var height: Int
    open val videoWidth: Int
    open val videoHeight: Int
    open var poster: String
    open var playsInline: Boolean

    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        val ENTITY_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 [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin
 */
public external abstract class HTMLAudioElement : HTMLMediaElement {
    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        val ENTITY_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
    }
public external abstract class HTMLTrackElement : HTMLElement {
    open var kind: String
    open var src: String
    open var srclang: String
    open var label: String
    open var default: Boolean
    open val readyState: Short
    open val track: TextTrack

    companion object {
        val NONE: Short
        val LOADING: Short
        val LOADED: Short
        val ERROR: Short
        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 [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin
 */
public external abstract class HTMLMediaElement : HTMLElement {
    open val error: MediaError?
    open var src: String
    open var srcObject: dynamic
    open val currentSrc: String
    open var crossOrigin: String?
    open val networkState: Short
    open var preload: String
    open val buffered: TimeRanges
    open val readyState: Short
    open val seeking: Boolean
    open var currentTime: Double
    open val duration: Double
    open val paused: Boolean
    open var defaultPlaybackRate: Double
    open var playbackRate: Double
    open val played: TimeRanges
    open val seekable: TimeRanges
    open val ended: Boolean
    open var autoplay: Boolean
    open var loop: Boolean
    open var controls: Boolean
    open var volume: Double
    open var muted: Boolean
    open var defaultMuted: Boolean
    open var audioTracks: AudioTrackList
    open var videoTracks: VideoTrackList
    open var textTracks: TextTrackList
    fun load()
    fun canPlayType(type: String): CanPlayTypeResult
    fun fastSeek(time: Double)
    fun getStartDate(): dynamic
    fun play(): Promise<Unit>
    fun pause()
    fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack

    companion object {
        val NETWORK_EMPTY: Short
        val NETWORK_IDLE: Short
        val NETWORK_LOADING: Short
        val NETWORK_NO_SOURCE: Short
        val HAVE_NOTHING: Short
        val HAVE_METADATA: Short
        val HAVE_CURRENT_DATA: Short
        val HAVE_FUTURE_DATA: Short
        val HAVE_ENOUGH_DATA: Short
        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 [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin
 */
public external abstract class MediaError {
    open val code: Short

    companion object {
        val MEDIA_ERR_ABORTED: Short
    }
}
val MEDIA_ERR_NETWORK: Short = 0x5
val MEDIA_ERR_SRC_NOT_SUPPORTED: Short = 0x6

/**
 * Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin
 */
public external abstract class AudioTrackList : EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackById(id: String): AudioTrack?
}

/**
 * Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin
 */
public external abstract class VideoTrackList : EventTarget {
    open val length: Int
    open val selectedIndex: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackById(id: String): VideoTrack?
}

/**
 * Exposes the JavaScript [TextTrackList](https://developer.mozilla.org/en/docs/Web/API/TextTrackList) to Kotlin
 */
public external abstract class TextTrackList : EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackById(id: String): TextTrack?
}

/**
 * Exposes the JavaScript [TextTrackCueList](https://developer.mozilla.org/en/docs/Web/API/TextTrackCueList) to Kotlin
 */
public external abstract class TextTrackCueList {
    open val length: Int
    fun getCueById(id: String): TextTrackCue?
}

/**
 * Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin
 */
public external abstract class TextTrackCue : EventTarget {
    open val track: TextTrack?
    open var id: String
    open var startTime: Double
    open var endTime: Double
    open var pauseOnExit: Boolean
    open var onenter: ((Event) -> dynamic)?
    open var onexit: ((Event) -> dynamic)?
}

/**
 * Exposes the JavaScript [TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin
 */
public external abstract class TimeRanges {
    open val length: Int
    fun start(index: Int): Double
    fun end(index: Int): Double
}

/**
 * Exposes the JavaScript [TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin
 */
public external open class TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {
    open val track: UnionAudioTrackOrTextTrackOrVideoTrack?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface TrackEventInit : EventInit {
    var track: UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */
        get() = definedExternally
        set(value) = definedExternally

    open var bubbles: Boolean
    open var cancelable: Boolean
    open var composed: Boolean
}

Open Source Used In CKC - Time Series Data Engine 1.2.2.4  6274
bubbles

```kotlin
bubbles o{"cancelable"} = cancelable'o{"composed"} = composed'o return o'"un"o'"un" /* Exposes the
JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin
*/

```
**Open Source Used In CKC - Time Series Data Engine 1.2.2.4**

```java
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
 [HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin
 */
public external abstract class HTMLTableColElement : HTMLElement {
    open var span: Int
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    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
 [HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin
 */
public external abstract class HTMLTableSectionElement : HTMLElement {
    open var rows: HTMLCollection
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    fun insertRow(index: Int = definedExternally): HTMLElement
    fun deleteRow(index: Int)

    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
 [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin
 */
public external abstract class HTMLTableRowElement : HTMLElement {
    open var rowIndex: Int
    open var sectionRowIndex: Int
    open var cells: HTMLCollection
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertCell(index: Int = definedExternally): HTMLElement
    fun deleteCell(index: Int)

    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
    }
```

---

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Open Source Used In CKC - Time Series Data Engine 1.2.2.4  6277
checked: Boolean
open var dirName: String
open var disabled: Boolean
open val form:

HTMLFormElement?
open val files: FileList?
open var formAction: String
open var formEncType:
String
open var formMethod: String
open var formNoValidate: Boolean
open var formTarget: String
open var height: Int
open var indeterminate: Boolean
open var inputMode: String
open val list:

HTMLElement?
open var max: String
open var maxLength: Int
open var min: String
open var minLength: Int
open var multiple: Boolean
open var name: String
open var pattern: String
open var placeholder: String
open var readOnly: Boolean
open var required: Boolean
open val size: Int
open var src: String
open var step: String
open var type: String
open var value:

String
open var valueAsDate: dynamic
open var valueAsNumber: Double
open var width: Int
open var willValidate: Boolean
open var validity: ValidityState
open val validationMessage: String
open val labels: NodeList?
open var selectionStart: Int
open var selectionEnd: Int
open var selectionDirection: String
open var align: String
open var useMap: String

fun stepUp(n: Int = definedExternally)
fun stepDown(n: Int = definedExternally)
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)
fun setRangeText(replacement: String)
fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)
fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally)
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 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 [HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin */

open var autofocus: Boolean
open var disabled: Boolean
open var form:

HTMLFormElement?
open val formAction: String
open var formEncType:
String
open var formMethod: String
open var formNoValidate: Boolean
open var formTarget: String
open var name: String
open var type: String
open var menu: HTMLMenuElement?
open var willValidate: Boolean
open var validity: ValidityState
open val validationMessage: String
open val labels: NodeList?
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)

/* Exposes the JavaScript [HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin */

open var autocomplete: String
open var autofocus: Boolean
open var disabled: Boolean
open var form:

HTMLFormElement?
open val formAction: String
open var formEncType:
String
open var formMethod: String
open var formNoValidate: Boolean
open var formTarget: String
open var name: String
open var type: String
open var options: HTMLOptionsCollection
open var length:
open val selectedOptions: HTMLCollection
open var selectedIndex: Int
open var value: String
open var willValidate: Boolean
open var validity: ValidityState
open var validationMessage: String
open val labels: NodeList
fun namedItem(name: String): HTMLCollection
fun add(element: UnionHTMLOptionElementOrHTMLOptionElement, before: dynamic = definedExternally)
fun remove(index: Int)
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)
override fun item(index: Int): Element?

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 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
}

@kotlin.internal.InlineOnly
public inline operator fun HTMLSelectElement.get(index: Int): Element? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun HTMLSelectElement.set(index: Int, value: HTMLOptionElement?) { asDynamic()[index] = value }

/**
 * Exposes the JavaScript [HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin
 */
public external abstract class HTMLDataListElement : HTMLElement {
open val options: HTMLCollection

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 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 [HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin
 */
public external abstract class HTMLOptGroupElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {
open var disabled: Boolean
open var label: 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 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 [HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin
 */
public external abstract class HTMLOptionElement : HTMLElement, UnionHTMLOptionElementOrHTMLOptionElement {
open var disabled: Boolean
open var form: HTMLFormElement?
open var label: String
open var defaultSelected: Boolean
open var selected: Boolean
open var value: String
open var text: String
open val index: Int

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 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
}


[CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin

```kotlin
public abstract class CanvasGradient {
    fun addColorStop(offset: Double, color: String)
}
```

Exposes the JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin

```kotlin
public abstract class CanvasPattern {
    fun setTransform(transform: dynamic = definedExternally)
}
```

Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin

```kotlin
public abstract class TextMetrics {
    open val width: Double
    open val actualBoundingBoxLeft: Double
    open val actualBoundingBoxRight: Double
    open val fontBoundingBoxAscent: Double
    open val fontBoundingBoxDescent: Double
    open val actualBoundingBoxAscent: Double
    open val actualBoundingBoxDescent: Double
    open val emHeightAscent: Double
    open val emHeightDescent: Double
}
```

HitRegionOptions

```kotlin
@kotlin.internal.InlineOnly
    val o = js("({})")
    o["path"] = path
    o["fillRule"] = fillRule
    o["id"] = id
    o["parentID"] = parentID
    o["cursor"] = cursor
    o["control"] = control
    o["label"] = label
    o["role"] = role
    return o
}
```

ImageData

```kotlin
public abstract class ImageData : ImageBitmapSource, TexImageSource {
    constructor(sw: Int, sh: Int)
    constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)
    open val width: Int
    open val height: Int
    open val data: Uint8ClampedArray
}
```

Path2D

```kotlin
public open class Path2D() : CanvasPath {
    constructor(path: Path2D)
    constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)
    constructor(d: String)
    fun addPath(path: Path2D, transform: dynamic = definedExternally)
    override fun closePath()
    override fun moveTo(x: Double, y: Double)
    override fun lineTo(x: Double, y: Double)
    override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)
    override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)
    override fun rect(x: Double, y: Double, w: Double, h: Double)
    override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */) * val o = js("{}")!o["alpha"] = alpha
    override fun transferFromImageBitmap(bitmap: ImageBitmap)
}
```

ImageBitmapRenderingContext

```kotlin
public interface ImageBitmapRenderingContextSettings {
    var alpha: Boolean? /* = true */
}
```

ImageBitmapRenderingContext

```kotlin
@kotlin.internal.InlineOnly
    val o = js("{}")!o["alpha"] = alpha
    return o
}
```

CustomElementRegistry

```kotlin
public interface CustomElementRegistrySettings {
    var allowShadowPiggyback: Boolean? /* = true */
}
```

ImageBitmapRenderingContext

```kotlin
@kotlin.internal.InlineOnly
    val o = js("{}")!o["alpha"] = alpha
    return o
}
```

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```kotlin
public open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {
    open val persisted: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface PageTransitionEventInit : EventInit {
        var persisted: Boolean? /* = false */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["persisted"] = persisted
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }
}
```

```kotlin
/**
 * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin
 */
public external open class PageTransitionEvent : EventTarget {
    open val status: Short
    open var onchecking: ((Event) -> dynamic)?
    open var onerror: ((Event) -> dynamic)?

    open var onnoupdate: ((Event) -> dynamic)?
    open var ondownloading: ((Event) -> dynamic)?
    open var onprogress: ((ProgressEvent) -> dynamic)?
    open var onupdateready: ((Event) -> dynamic)?
    open var fun update(): Unit
    open var fun abort(): Unit

    companion object {
        val UNCACHED: Short
        val IDLE: Short
        val CHECKING: Short
        val DOWNLOADING: Short
        val UPDATEREADY: Short
        val OBSOLETE: Short
    }
}
```

```kotlin
/**
 * Exposes the JavaScript [NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin
 */
public external interface NavigatorOnLine {
    val onLine: Boolean
}
```

```kotlin
/**
 * Exposes the JavaScript [ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin
 */
public external open class ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {
    open val message: String
    open val filename: String
    open val lineno: Int
    open val colno: Int
    open val error: Any?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface ErrorEventInit : EventInit {
        var message: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
        var filename: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
        var lineno: Int? /* = 0 */
            get() = definedExternally
            set(value) = definedExternally
        var colno: Int? /* = 0 */
            get() = definedExternally
            set(value) = definedExternally
        var error: Any? /* = null */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["message"] = message
        o["filename"] = filename
        o["lineno"] = lineno
        o["colno"] = colno
        o["error"] = error
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }
}
```

```kotlin
/**
 * Exposes the JavaScript [PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin
 */
public external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {
    open val promise: Promise<Any?>
    open val reason: Any?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface PromiseRejectionEventInit : EventInit {
        var message: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
        var name: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["message"] = message
        o["name"] = name
        o["error"] = error
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }
}
```
promise: Promise<Any?>?\n
get() = definedExternally\n
set(value) = definedExternally\n var reason:
Any?\n
get() = definedExternally\n
set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PromiseRejectionEventInit(promise:
Boolean? = false): PromiseRejectionEventInit {\n val o = js(\"({})\")\n o[\"promise\"] = promise\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
[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n
*/\npublic external interface GlobalEventHandlers {\n var onabort: ((Event) -> dynamic)?\n
get() =
definedExternally\n
set(value) = definedExternally\n var onblur: ((FocusEvent) -> dynamic)?\n
get() =
definedExternally\n
set(value) = definedExternally\n var oncancel: ((Event) -> dynamic)?\n
get() =
definedExternally\n
set(value) = definedExternally\n var oncanplay: ((Event) -> dynamic)?\n
get() =
definedExternally\n
set(value) = definedExternally\n var oncanplaythrough: ((Event) -> dynamic)?\n
get()
= definedExternally\n
set(value) = definedExternally\n var onchange: ((Event) -> dynamic)?\n
get() =
definedExternally\n
set(value) = definedExternally\n var onclick: ((MouseEvent) -> dynamic)?\n
get() =
definedExternally\n
set(value) = definedExternally\n var onclose: ((Event) -> dynamic)?\n
get() =
definedExternally\n
set(value) = definedExternally\n var oncontextmenu: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var oncuechange: ((Event) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondblclick: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondrag: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondragend: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondragenter: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondragexit: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondragleave: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondragover: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondragstart: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondrop: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var ondurationchange: ((Event) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var onemptied: ((Event) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var onended: ((Event) -> dynamic)?\n
get() =
definedExternally\n
set(value) = definedExternally\n var onerror: ((dynamic, String, Int, Int, Any?) ->
dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var onfocus: ((FocusEvent) ->
dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var oninput: ((InputEvent) ->
dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var oninvalid: ((Event) ->
dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var onkeydown:
((KeyboardEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var
onkeypress: ((KeyboardEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n
var onkeyup: ((KeyboardEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) =
definedExternally\n var onload: ((Event) -> dynamic)?\n
get() = definedExternally\n
set(value) =
definedExternally\n var onloadeddata: ((Event) -> dynamic)?\n
get() = definedExternally\n
set(value) =
definedExternally\n var onloadedmetadata: ((Event) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var onloadend: ((Event) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var onloadstart: ((ProgressEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var onmousedown: ((MouseEvent) -> dynamic)?\n
get() =
definedExternally\n
set(value) = definedExternally\n var onmouseenter: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var onmouseleave: ((MouseEvent) ->
dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var onmousemove:
((MouseEvent) -> dynamic)?\n
get() = definedExternally\n
set(value) = definedExternally\n var

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onmouseout: ((MouseEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onmouseover: ((MouseEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onmouseup: ((MouseEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onwheel: ((WheelEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onpause: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onplay: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onvoldown: ((ProgressEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onratechange: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onreset: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onresize: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onscroll: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onseeked: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onseeking: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onselect: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onshow: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onstalled: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onsubmit: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onsuspend: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onprogress: ((ProgressEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onvolumechange: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onwaiting: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var ongotpointercapture: ((PointerEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onlostpointercapture: ((PointerEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onpointerdown: ((PointerEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onpointermove: ((PointerEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onpointerup: ((PointerEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onpointercancel: ((PointerEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onpointerover: ((PointerEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onpointerout: ((PointerEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onpointerenter: ((PointerEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally

var onpointerleave: ((PointerEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
get() = definedExternally
set(value) = definedExternally
var onrejectionhandled: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
var onunload: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
}

public external interface DocumentAndElementEventHandlers {
    var oncopy:
((ClipboardEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
    var oncut:
((ClipboardEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
    var onpaste: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) =
definedExternally
}

/**
 * Exposes the JavaScript
 */
public external interface WindowOrWorkerGlobalScope {
    val origin: String
    val caches: CacheStorage
    fun btoa(data: String): String
    fun atob(data: String): String
    fun setTimeout(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int
    fun clearTimeout(handle: Int = definedExternally)
    fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int
    fun clearInterval(handle: Int = definedExternally)
    fun createImageBitmap(image: ImageBitmapSource, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>
    fun fetch(input: dynamic, init: RequestInit = definedExternally): Promise<Response>
}

/**
 * Exposes the JavaScript
 */
public external abstract class Navigator : NavigatorID, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {
    open val clipboard: Clipboard
    open val mediaDevices: MediaDevices
    open val maxTouchPoints: Int
    open val serviceWorker: ServiceWorkerContainer
    fun getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)
    fun vibrate(pattern: dynamic): Boolean
}

/**
 * Exposes the JavaScript
 */
public external interface NavigatorID {
    val appCodeName: String
    val appName: String
    val appVersion: String
    val platform: String
    val product: String
    val productSub: String
    val userAgent: String
    val vendor: String
    val vendorSub: String
    fun taintEnabled(): Boolean
}

/**
 * Exposes the JavaScript
 */
public external interface NavigatorLanguage {
    val language: String
    val languages: Array<String>
}

public external interface NavigatorContentUtils {
    fun registerProtocolHandler(scheme: String, url: String, title: String)
    fun registerContentHandler(mimeType: String, url: String, title: String)
    fun isProtocolHandlerRegistered(scheme: String, url: String): String
    fun isContentHandlerRegistered(mimeType: String, url: String): String
    fun unregisterProtocolHandler(scheme: String, url: String)
    fun unregisterContentHandler(mimeType: String, url: String)
}

public external interface NavigatorCookies {
    val cookieEnabled: Boolean
}

/**
 * Exposes the JavaScript
 */
public external interface NavigatorPlugins {
    val plugins: PluginArray
    val mimeTypes: MimeTypeArray
    fun javaEnabled(): Boolean
}

@kotlin.internal.InlineOnly
public inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]

/**
 * Exposes the JavaScript
 */
public external interface PluginArray {
    fun refresh(reload: Boolean = definedExternally)
    override fun item(index: Int): Plugin?
    fun namedItem(name: String): Plugin?
}

@kotlin.internal.InlineOnly
public inline operator fun MimeTypeArray.get(index: Int): String = asDynamic()[index]
abstract class MimeTypeArray : ItemArrayLike<MimeType> {
    override fun item(index: Int): MimeType?
    fun namedItem(name: String): MimeType?
}

@kotlin.internal.InlineOnly
public inline operator fun MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]

/**
 * Exposes the JavaScript [MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin
 */
public external abstract class Plugin : ItemArrayLike<MimeType> {
    open val name: String
    open val description: String
    open val filename: String
    override fun item(index: Int): MimeType?
    fun namedItem(name: String): MimeType?
}

@kotlin.internal.InlineOnly
public inline operator fun Plugin.get(index: Int): MimeType? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Plugin.get(name: String): MimeType? = asDynamic()[name]

/**
 * Exposes the JavaScript [MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin
 */
public external abstract class MimeType {
    open val type: String
    open val description: String
    open val suffixes: String
    open val enabledPlugin: Plugin
}

/**
 * Exposes the JavaScript [ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin
 */
public external abstract class ImageBitmap : CanvasImageSource, TexImageSource {
    open val width: Int
    open val height: Int
    fun close()
}

public external interface ImageBitmapOptions {
    var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */
    var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */
    var colorSpaceConversion: ColorSpaceConversion? /* = ColorSpaceConversion.DEFAULT */
    var resizeWidth: Int?
    var resizeHeight: Int?
    var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */
    fun initImageBitmapOptions(imageOrientation: ImageOrientation?,
                                premultiplyAlpha: PremultiplyAlpha?,
                                colorSpaceConversion: ColorSpaceConversion?,
                                resizeWidth: Int?,
                                resizeHeight: Int?,
                                resizeQuality: ResizeQuality?): ImageBitmapOptions
}

@kotlin.internal.InlineOnly
public inline fun ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE,
                                      premultiplyAlpha: PremultiplyAlpha? = PremultiplyAlpha.DEFAULT,
                                      colorSpaceConversion: ColorSpaceConversion? = ColorSpaceConversion.DEFAULT,
                                      resizeWidth: Int? = undefined,
                                      resizeHeight: Int? = undefined,
                                      resizeQuality: ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {
    val o = js("""
        "value: {{value}}""
    """
    return o
}

/**
 * Exposes the JavaScript [MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin
 */
public external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {
    open val data: Any?
    open val origin: String
    open val lastEventId: String
    open val source: UnionMessagePortOrWindowProxy?
    fun initMessageEvent(type: String,
                          bubbles: Boolean,
                          cancelable: Boolean,
                          data: Any?,
                          origin: String,
                          lastEventId: String?,
                          source: UnionMessagePortOrWindowProxy?,
                          ports: Array<MessagePort>?,
                          composed: Boolean? = false)
}

public external interface MessageEventInit : EventInit {
    var data: Any? /* = null */
    var origin: String? /* = "" */
    var lastEventId: String? /* = "" */
    var source: UnionMessagePortOrWindowProxy? /* = null */
    var ports: Array<MessagePort>? /* = null */
    var composed: Boolean? /* = false */
}

@kotlin.internal.InlineOnly
public inline fun MessageEventInit(data: Any? = null,
                                    origin: String? = "",
                                    lastEventId: String? = "",
                                    source: UnionMessagePortOrWindowProxy? = null,
                                    ports: Array<MessagePort>? = null,
                                    composed: Boolean? = false): MessageEventInit {
    val o = js("""
        "value: {{value}}""
    """
    return o
}
o["lastEventId"] = lastEventId
  o["source"] = source
  o["ports"] = ports
  o["bubbles"] = bubbles
  o["cancelable"] = cancelable
  o["composed"] = composed
  return o
}

/**
 * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin
 */
public external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {
    open val url: String
    open val withCredentials: Boolean
    open val readyState: Short
    var onopen: ((Event) -> dynamic)?
    var onmessage: ((MessageEvent) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    fun close()

    companion object {
        val CONNECTING: Short
        val OPEN: Short
        val CLOSED: Short
    }

    /**
     * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin
     */
    public external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {
        open val url: String
        open val readyState: Short
        open val bufferedAmount: Number
        var onopen: ((Event) -> dynamic)?
        var onerror: ((Event) -> dynamic)?
        var onclose: ((Event) -> dynamic)?
        open val extensions: String
        open val protocol: String
        var onmessage: ((MessageEvent) -> dynamic)?
        var binaryType: BinaryType
        fun close(code: Short = definedExternally, reason: String = definedExternally)
        fun send(data: String)
        fun send(data: Blob)
        fun send(data: ArrayBuffer)
        fun send(data: ArrayBufferView)

        companion object {
            val CONNECTING: Short
            val OPEN: Short
            val CLOSING: Short
            val CLOSED: Short
        }
    }

    /**
     * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin
     */
    public external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {
        open val wasClean: Boolean
        open val code: Short
        open val reason: String

        companion object {
            val NONE: Short
            val CAPTURING_PHASE: Short
            val AT_TARGET: Short
            val BUBBLING_PHASE: Short
        }

        public external interface CloseEventInit : EventInit {
            var wasClean: Boolean? /* = false */
            var code: Short? /* = 0 */
            var reason: String? /* = "" */
        }

        @kotlin.internal.InlineOnly
            val o = js("({})")
            o["wasClean"] = wasClean
            o["code"] = code
            o["reason"] = reason
            o["bubbles"] = bubbles
            return o
        }
    }

    /**
     * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin
     */
    public external open class MessageChannel {
        open val port1: MessagePort
        open val port2: MessagePort
    }

    /**
     * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin
     */
    public external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {
        open var onmessage: ((MessageEvent) -> dynamic)?
        fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
        fun start()
        fun close()

    }

    /**
     * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin
     */
    public external open class BroadcastChannel(name: String) : EventTarget {
        open val name: String
        var onmessage: ((MessageEvent) -> dynamic)?
        fun postMessage(message: Any?)
        fun close()
    }

    /**
     * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin
     */
    public external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {
        open val self: WorkerGlobalScope
        open val location: WorkerLocation
        open val navigator: WorkerNavigator
        open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
        fun onlanguagechange: ((Event) -> dynamic)?
        fun onoffline: ((Event) -> dynamic)?
        fun ononmessage: ((MessageEvent) -> dynamic)?
        fun onreadystatechange: ((Event) -> dynamic)?
        fun importScripts(vararg urls: String)
    }
JavaScript

[DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin

```kotlin
*\n/public external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun close()
}
```

[SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin

```kotlin
*\n/public external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {
    open val applicationCache: ApplicationCache
    open var onconnect: ((Event) -> dynamic)?
    fun close()
}
```

[AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin

```kotlin
Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {
    var onmessage: ((MessageEvent) -> dynamic)?
    override var onerror: ((Event) -> dynamic)?
    fun terminate()
}
```

`WorkerOptions`

```kotlin
public external interface WorkerOptions {
    var type: WorkerType? /* = WorkerType.CLASSIC */
    var credentials: RequestCredentials? /* = RequestCredentials.OMIT */
}
```

```kotlin
@kotlin.internal.InlineOnly
public inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {
    val o = js("({})")
    o["type"] = type
    o["credentials"] = credentials
    return o
}
```

[NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin

```kotlin
public external abstract class NavigatorConcurrentHardware {
    val hardwareConcurrency: Number
}
```

[WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin

```kotlin
public external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {
    open val serviceWorker: ServiceWorkerContainer
}
```

[Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin

```kotlin
public external abstract class Storage {
    open val length: Int
    fun key(index: Int): String?
    fun removeItem(key: String)
    fun clear()
    fun getItem(key: String): String?
    fun setItem(key: String, value: String)
}
```

```kotlin
@kotlin.internal.InlineOnly
public inline operator fun Storage.get(key: String): String? = asDynamic()[key]
@kotlin.internal.InlineOnly
public inline operator fun Storage.set(key: String, value: String) { asDynamic()[key] = value }
```

[WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin

```kotlin
*\n/public external interface WindowSessionStorage {
    val sessionStorage: Storage
}
```

[WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin

```kotlin
*\n/public external interface WindowLocalStorage {
    val localStorage: Storage
}
```

[StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin

```kotlin
/public external 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
    val o = js("({})")
    o["key"] = key
    o["oldValue"] = oldValue
    o["newValue"] = newValue
    o["url"] = url
    o["storageArea"] = storageArea
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    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_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_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_IMPLEMENTATION_SPECIFIC: Short
    }
}
```java
public external interface MutationObserverInit {
    var childList: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var attributes: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var characterData: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var subtree: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var attributeOldValue: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var characterDataOldValue: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var attributeFilter: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["childList"] = childList
    o["attributes"] = attributes
    o["characterData"] = characterData
    o["subtree"] = subtree
    o["attributeOldValue"] = attributeOldValue
    o["characterDataOldValue"] = characterDataOldValue
    o["attributeFilter"] = attributeFilter
    return o
}

/**
 * Exposes the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin
 */
public external abstract class MutationRecord {
    open val type: String
    open val target: Node
    open val addedNodes: NodeList
    open val removedNodes: NodeList
    open val previousSibling: Node?
    open val nextSibling: Node?
    open val attributeName: String?
    open val attributeNamespace: String?
    open val oldValue: String?
}

/**
 * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin
 */
public external abstract class Node : EventTarget {
    open val nodeType: Short
    open val nodeName: String
    open val baseURI: String
    open val isConnected: Boolean
    open val ownerDocument: Document?
    open val parentNode: Node?
    open val parentElement: Element?
    open val childNodes: NodeList
    open val firstChild: Node?
    open val lastChild: Node?
    open val previousSibling: Node?
    open val nextSibling: Node?
    open var nodeValue: String?
    open var textContent: String?
    fun getRootNode(options: GetRootNodeOptions = definedExternally): Node
    fun normalize()
    fun cloneNode(deep: Boolean = definedExternally): Node
    fun isSameNode(otherNode: Node?): Boolean
    fun isEqualNode(otherNode: Node?): Boolean
    fun compareDocumentPosition(other: Node): Short
    fun contains(other: Node?): Boolean
    fun lookupPrefix(namespace: String?): String?
    fun lookupNamespaceURI(prefix: String?): String?
    fun isDefaultNamespace(namespace: String?): Boolean
    fun insertBefore(node: Node, child: Node?): Node
    fun appendChild(node: Node): Node
    fun replaceChild(node: Node, child: Node): Node
    fun removeChild(child: Node): Node

    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 ENTITIE_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
    }
}

public external interface GetRootNodeOptions {
    var composed: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun GetRootNodeOptions(composed: Boolean? = false): GetRootNodeOptions {
    val o = js("({})")
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin
 */
    open val implementation:
```
DOMImplementation
open val URL: String
open val documentURI: String
open val origin: String
open val compatMode: String
open val characterSet: String
open val charSet: String
open val inputEncoding: String
open val contentType: DocumentType
open val doctype: DocumentType

open val documentElement: Element
open val location: Location
var domain: String
open val referrer: String

var cookie: String
open val lastModified: String
open val readyState: DocumentReadyState
var title: String
var dir: String
var body: HTMLElement
open val head: HTMLHeadElement
open val images: HTMLCollection
open val embeds: HTMLCollection
open val scripts: HTMLCollection
open val currentScript: HTMLOrSVGScriptElement

open val defaultView: Window
open val activeElement: Element
open val styleSheets: StyleSheetList
open val rootElement: SVGSVGElement
open val fullscreenEnabled: Boolean
open val fullscreen: Boolean
var onfullscreenchange: ((Event) -> dynamic)?
on onfullscreenerror: ((Event) -> dynamic)?
ononabort: ((Event) -> dynamic)?
onononreadystatechange: ((Event) -> dynamic)?
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onpointercancel: ((PointerEvent) -> dynamic)?
override var onpointerover: ((PointerEvent) -> dynamic)?
override var onpointerout: ((PointerEvent) -> dynamic)?
override var onpointerleave: ((PointerEvent) -> dynamic)?
override var oncopy: ((ClipboardEvent) -> dynamic)?
override var oncut: ((ClipboardEvent) -> dynamic)?
override var onpaste: ((ClipboardEvent) -> dynamic)?
override val fullscreenElement: Element? 
override val children: HTMLCollection
fun getElementsByTagNS(namespace: String?, localName: String): HTMLCollection 
fun getElementsByTagNameNS(qualifiedName: String): HTMLCollection
fun getElementsByClassName(classNames: String): HTMLCollection 
fun createElement(localName: String, options: ElementCreationOptions = definedExternally): Element
fun createDocumentFragment(): DocumentFragment 
fun createTextNode(data: String): Text
fun createCDATASection(data: String): CDATASection 
fun createComment(data: String): Comment 
fun createProcessingInstruction(target: String, data: String): ProcessingInstruction 
fun importNode(node: Node, deep: Boolean = definedExternally): Node?
fun adoptNode(node: Node): Node?
fun createAttribute(localName: String): Attr? 
fun createAttributeNS(namespace: String?, qualifiedName: String): Attr? 
fun createEvent("interface": String): Event? 
fun createRange(): Range
fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): NodeIterator
fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker
fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker
fun getElementsByName(elementName: String): NodeList
fun open(type: String = definedExternally, replace: String = definedExternally): Document
fun open(url: String, name: String, features: String): Window
fun close(): Document
fun write(vararg text: String)
fun writeln(vararg text: String)
fun hasFocus(): Boolean
fun execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally): Boolean
fun queryCommandEnabled(commandId: String): Boolean
fun queryCommandIndeterm(commandId: String): Boolean
fun queryCommandState(commandId: String): Boolean
fun queryCommandSupported(commandId: String): Boolean
fun queryCommandValue(commandId: String): String
fun createTextNode(data: String): Text
fun createCDATASection(data: String): CDATASection
fun createComment(data: String): Comment
fun createProcessingInstruction(target: String, data: String): ProcessingInstruction
fun importNode(node: Node, deep: Boolean = definedExternally): Node?
fun adoptNode(node: Node): Node?
fun createAttribute(localName: String): Attr?
fun createAttributeNS(namespace: String?, qualifiedName: String): Attr?
fun createEvent("interface": String): Event?
fun createRange(): Range
fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): NodeIterator
fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker
fun getElementsByName(elementName: String): NodeList
fun open(type: String = definedExternally, replace: String = definedExternally): Document
fun open(url: String, name: String, features: String): Window
fun close(): Document
fun write(vararg text: String)
fun writeln(vararg text: String)
fun hasFocus(): Boolean
fun execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally): Boolean
fun queryCommandEnabled(commandId: String): Boolean
fun queryCommandIndeterm(commandId: String): Boolean
fun queryCommandState(commandId: String): Boolean
fun queryCommandSupported(commandId: String): Boolean
fun queryCommandValue(commandId: String): String
val DOCUMENT_POSITION_FOLLOWING: Short?
val DOCUMENT_POSITION_CONTAINS: Short?
val DOCUMENT_POSITION_CONTAINED_BY: Short?
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short?

@kotlin.internal.InlineOnly
public inline operator fun Document.get(name: String): dynamic = asDynamic()[name]

/**
 * Exposes the JavaScript [XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin
 */
public external open class XMLDocument : Document {
    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_UPDATE: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external interface ElementCreationOptions {
    var `is`: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ElementCreationOptions(`is`: String? = undefined): ElementCreationOptions {
    val o = js("({})")
    o["is"] = `is`
    return o
}

/**
 * Exposes the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin
 */
public external abstract class DOMImplementation {
    fun createDocumentType(qualifiedName: String, publicId: String, systemId: String): DocumentType
    fun createDocument(namespace: String?, qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument
    fun createHTMLDocument(title: String = definedExternally): Document
    fun hasFeature(): Boolean
}

/**
 * Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin
 */
public external abstract class DocumentType : Node, ChildNode {
    open val name: String
    open val publicId: String
    open val systemId: 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_UPDATE: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin
 */
public external open class DocumentFragment : Node, NonElementParentNode, ParentNode {
    override val children: HTMLCollection
    override val firstElementChild: Element?
    override val lastElementChild: Element?
    override val childElementCount: Int
    override fun getElementById(elementId: String): Element?
    override fun append(vararg nodes: dynamic)
    override fun prepend(vararg nodes: dynamic)
    override fun querySelector(selectors: String): Element?
    override fun querySelectorAll(selectors: String): NodeList

    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_UPDATE: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

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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 [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin
 */
public external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {
    open val mode: ShadowRootMode
    open val host: Element
    override val fullscreenElement: Element?

    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 DOCUMENT_FRAGMENT_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 [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin
 */
public external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils, UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent, UnionElementOrProcessingInstruction {
    open val namespaceURI: String?
    open val prefix: String?
    open val localName: String
    open val tagName: String
    open var id: String
    open var className: String
    open val classList: DOMTokenList
    open var slot: String
    open val attributes: NamedNodeMap
    open val shadowRoot: ShadowRoot?
    open var scrollTop: Double
    open var scrollLeft: Double
    open val scrollWidth: Int
    open val scrollHeight: Int
    open val clientTop: Int
    open val clientLeft: Int
    open val clientWidth: Int
    open val clientHeight: Int
    open var innerHTML: String
    open var outerHTML: String

    fun hasAttributes(): Boolean
    fun getAttributeNames(): Array<String>
    fun getAttribute(qualifiedName: String): String?
    fun getAttributeNS(namespace: String?, localName: String): String?
    fun setAttribute(qualifiedName: String, value: String)
    fun setAttributeNS(namespace: String?, qualifiedName: String, value: String)
    fun removeAttribute(qualifiedName: String)
    fun removeAttributeNS(namespace: String?, localName: String)
    fun hasAttribute(qualifiedName: String): Boolean
    fun hasAttributeNS(namespace: String?, localName: String): Boolean
    fun getAttributeNode(qualifiedName: String): Attr?
    fun getAttributeNodeNS(namespace: String?, localName: String): Attr?
    fun setAttributeNode(attr: Attr): Attr?
    fun setAttributeNodeNS(attr: Attr): Attr?
    fun removeAttributeNode(ATTR: Attr)
    fun attachShadow(init: ShadowRootInit): ShadowRoot
    fun closest(selectors: String): Element
    fun matches(selectors: String): Boolean
    fun getElementsByTagName(qualifiedName: String): HTMLCollection
    fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection
    fun getElementsByClassName(classNames: String): HTMLCollection
    fun insertAdjacentElement(where: String, element: Element): Element?
    fun insertAdjacentText(where: String, data: String)
    fun getClientRects(): Array<DOMRect>
    fun getBoundingClientRect(): DOMRect
    fun requestFullscreen(): Promise<Unit>

    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 DOCUMENT_FRAGMENT_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
    }
}
override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
    override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint
    override fun before(vararg nodes: dynamic)
    override fun after(vararg nodes: dynamic)
    override fun replaceWith(vararg nodes: dynamic)

    override fun remove()

    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_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin
 */
public external open class CDATASection : Text {
    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_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin
 */
public external abstract class ProcessingInstruction : CharacterData, LinkStyle,
    UnionElementOrProcessingInstruction {
    open val target: 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_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin
 */
public external open class Comment(data: String = definedExternally) : CharacterData {
    override val previousElementSibling: Element?

    override val nextElementSibling: Element?
    override fun before(vararg nodes: dynamic)
    override fun after(vararg nodes: dynamic)
    override fun replaceWith(vararg nodes: dynamic)

    override fun remove()

    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_IMPLEMENTATION_SPECIFIC: 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

[Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin */

public external open class Range {

open val startContainer: Node
open val startOffset: Int
open val endContainer: Node
open val endOffset: Int

fun setStart(node: Node, offset: Int)
fun setEnd(node: Node, offset: Int)
fun setStartBefore(node: Node)
fun setStartAfter(node: Node)
fun setEndBefore(node: Node)
fun setEndAfter(node: Node)
fun collapse(toStart: Boolean = definedExternally)
fun selectNode(node: Node)
fun cloneContents(): DocumentFragment
fun deleteContents()
fun extractContents(): DocumentFragment
fun insertNode(node: Node)
fun surroundContents(newParent: Node)
fun cloneRange(): Range
fun detach()
fun isPointInRange(node: Node, offset: Int): Boolean
fun comparePoint(node: Node, offset: Int): Short
fun intersectsNode(node: Node): Boolean
fun getClientRects(): Array<DOMRect>
fun getBoundingClientRect(): DOMRect
fun createContextualFragment(fragment: String): DocumentFragment

companion object {
val START_TO_START: Short
val START_TO_END: Short
val END_TO_END: Short
val END_TO_START: Short
}

/**
 * Exposes the JavaScript

[NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin */

public external abstract class NodeIterator {

open val root: Node
open val referenceNode: Node
open val pointerBeforeReferenceNode: Boolean
open val whatToShow: Int
open val filter: NodeFilter?

fun nextNode(): Node?
fun previousNode(): Node?
fun detach()
}

/**
 * Exposes the JavaScript

[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin */

public external abstract class TreeWalker {

open val root: Node
open val whatToShow: Int
open val filter: NodeFilter?
open var currentNode: Node

fun parentNode(): Node?
fun firstChild(): Node?
fun lastChild(): Node?
fun previousSibling(): Node?
fun nextSibling(): Node?
fun nextNode(): Node?
}

/**
 * Exposes the JavaScript

[NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")

public external interface NodeFilter {

fun acceptNode(node: Node): Short

companion object {
val FILTER_ACCEPT: Short
val FILTER_REJECT: Short
val FILTER_SKIP: Short
val SHOW_ALL: Int
val SHOW_ELEMENT: Int
val SHOW_ATTRIBUTE: Int
val SHOW_TEXT: Int
val SHOW_CDATA_SECTION: Int
val SHOW_ENTITY_REFERENCE: Int
val SHOW_ENTITY: Int
val SHOW_COMMENT: Int
val SHOW_DOCUMENT: Int
val SHOW_DOCUMENT_TYPE: Int
val SHOW_DOCUMENT_FRAGMENT: Int
val SHOW_NOTATION: Int
}

public external abstract class DOMTokenList : ItemArrayLike<String> {

open var value: String
fun contains(token: String): Boolean
fun add(vararg tokens: String)
fun remove(vararg tokens: String)
fun toggle(token: String, force: Boolean = definedExternally): Boolean
fun replace(token: String, newToken: String)
fun supports(token: String): Boolean
fun item(index: Int): String?
}

@kotlin.internal.InlineOnly
public inline operator fun DOMTokenList.get(index: Int): String? =
asDynamic()[index]
}

/**
 * Exposes the JavaScript

[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin */

public external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {

open val x: Double
open val y: Double
open val z: Double
open val w: Double

fun matrixTransform(matrix: DOMMatrixReadOnly): DOMPoint
}

/**
 * Exposes the JavaScript

[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin */

public external class DOMPoint : DOMPointReadOnly {

constructor(point: DOMPointInit)

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:

/**
 * Exposes the JavaScript
 */
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?

/**
 * Exposes the JavaScript
 */
public external open class DOMRect {
    constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3:
    open val p1: DOMPoint
    open val p2: DOMPoint
    open val p3: DOMPoint
    open val p4: DOMPoint

    open val bounds: DOMRectReadOnly
}

/**
 * Exposes the JavaScript
 */
public external open class DOMMatrixReadOnly {
    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:
    fun scaleNonUniform(scaleX: Double, scaleY: Double, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun rotate(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun rotateFromVector(x:
fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double):
    DOMMatrix

fun skewX(x: Double): DOMMatrix

fun skewY(y: Double): DOMMatrix

fun multiply(other: DOMMatrix): DOMMatrix

fun flipX(): DOMMatrix

fun flipY(): DOMMatrix

fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint

fun toFloat32Array(): Float32Array

fun toFloat64Array(): Float64Array

fun inverse(): DOMMatrix

fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint

fun toFloat32Array(): Float32Array

fun toFloat64Array(): Float64Array

fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double):
    DOMMatrix

fun skewX(sx: Double): DOMMatrix

fun skewY(sy: Double): DOMMatrix

fun multiply(other: DOMMatrix): DOMMatrix

fun flipX(): DOMMatrix

fun flipY(): DOMMatrix

fun inverse(): DOMMatrix

fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint
    val o = js("({})")
    o["media"] = media
    o["matches"] = matches
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return null
}

/**
 * Exposes the JavaScript [Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin
 */
public external abstract class Screen {
    open val availWidth: Int
    open val availHeight: Int
    open val colorDepth: Int
    open val pixelDepth: Int
    fun getClientRect(): DOMRect?
    fun getScreen(): Screen
}

/**
 * Exposes the JavaScript [CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin
 */
public external abstract class CaretPosition {
    open val offsetNode: Node
    open val offset: Int
    fun getClientRect(): DOMRect?
}

public external interface ScrollIntoViewOptions : ScrollOptions {
    var block: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */
    var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */
    fun get(): definedExternally
    fun set(value: definedExternally)
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["block"] = block
    o["inline"] = inline
    o["behavior"] = behavior
    return o
}

public external interface BoxQuadOptions {
    var box: CSSBoxType? /* = CSSBoxType.BORDER */
    var relativeTo: dynamic
    fun get(): definedExternally
    fun set(value: definedExternally)
}

@kotlin.internal.InlineOnly
public inline fun BoxQuadOptions(box: CSSBoxType? = CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {
    val o = js("({})")
    o["box"] = box
    o["relativeTo"] = relativeTo
    return o
}

public external interface ConvertCoordinateOptions {
    var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */
    var toBox: CSSBoxType? /* = CSSBoxType.BORDER */
    fun get(): definedExternally
    fun set(value: definedExternally)
}

@kotlin.internal.InlineOnly
public inline fun ConvertCoordinateOptions(fromBox: CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER): ConvertCoordinateOptions {
    val o = js("({})")
    o["fromBox"] = fromBox
    o["toBox"] = toBox
    return o
}

/**
 * Exposes the JavaScript [GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin
 */
public external interface GeometryUtils {
    fun getBoxQuads(options: BoxQuadOptions = definedExternally): Array<DOMQuad>
    fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad
    fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad
    fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMPoint
}

/**
 * Exposes the JavaScript [GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin
 */
public external open class TouchEvent : UIEvent {
    open val touches: TouchList
    open val targetTouches: TouchList
    open val changedTouches: TouchList
    open val altKey: Boolean
    open val metaKey: Boolean
    open val ctrlKey: Boolean
    open val shiftKey: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

/**
 * Exposes the JavaScript [Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin
 */
public external open class Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLImageElement {
    override var onabort: ((Event) -> dynamic)?
    override var onblur: ((FocusEvent) -> dynamic)?
    override var oncancel: ((Event) -> dynamic)?
    override var onerror: ((Event) -> dynamic)?
    override var onfocus: ((FocusEvent) -> dynamic)?
    override var onfocusin: ((Event) -> dynamic)?
    override var onfocusout: ((Event) -> dynamic)?
    override var onkeydown: ((Event) -> dynamic)?
    override var onkeypress: ((Event) -> dynamic)?
    override var onkeyup: ((Event) -> dynamic)?
    override var onload: ((Event) -> dynamic)?
    override var onorientationchange: ((Event) -> dynamic)?
    override var onreadystatechange: ((Event) -> dynamic)?
    override var onresize: ((Event) -> dynamic)?
    override var onscroll: ((Event) -> dynamic)?
    override var onstorage: ((StorageEvent) -> dynamic)?
    override var onAbort: ((Event) -> dynamic)?
    override var onblur: ((FocusEvent) -> dynamic)?
    override var oncancel: ((Event) -> dynamic)?
    override var onError: ((Event) -> dynamic)?
    override var onFocus: ((FocusEvent) -> dynamic)?
    override var onFocusIn: ((Event) -> dynamic)?
    override var onFocusOut: ((Event) -> dynamic)?
    override var onKeyPress: ((Event) -> dynamic)?
    override var onKeyUp: ((Event) -> dynamic)?
    override var onLoad: ((Event) -> dynamic)?
    override var onOrientationChange: ((Event) -> dynamic)?
    override var onResize: ((Event) -> dynamic)?
    override var onScroll: ((Event) -> dynamic)?
    override var onStorage: ((StorageEvent) -> dynamic)?
}
DOMPoint
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
}

public external open class Audio(src: String = definedExternally) : HTMLAudioElement {
    override var onAbort: ((Event) -> dynamic)?
    override var onblur: ((FocusEvent) -> dynamic)?
    override var oncancel: ((Event) -> dynamic)?
    override var oncanPlay: ((Event) -> dynamic)?
    override var oncanPlayThrough: ((Event) -> dynamic)?
    override var onchange: ((Event) -> dynamic)?
    override var onclick: ((MouseEvent) -> dynamic)?
    override var onclose: ((Event) -> dynamic)?
    override var oncontextmenu: ((MouseEvent) -> dynamic)?
    override var oncuechange: ((Event) -> dynamic)?
    override var ondblclick: ((MouseEvent) -> dynamic)?
    override var ondrag: ((DragEvent) -> dynamic)?
    override var ondragend: ((DragEvent) -> dynamic)?
    override var ondragenter: ((DragEvent) -> dynamic)?
    override var ondragleave: ((DragEvent) -> dynamic)?
    override var ondragover: ((DragEvent) -> dynamic)?
    override var ondrop: ((DragEvent) -> dynamic)?
    override var ondurationchange: ((Event) -> dynamic)?
    override var onemptied: ((Event) -> dynamic)?
    override var onended: ((Event) -> dynamic)?
    override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
    override var onfocus: ((FocusEvent) -> dynamic)?
    override var oninput: ((InputEvent) -> dynamic)?
    override var oninvalid: ((Event) -> dynamic)?
    override var onkeydown: ((KeyboardEvent) -> dynamic)?
    override var onkeypress: ((KeyboardEvent) -> dynamic)?
    override var onkeyup: ((KeyboardEvent) -> dynamic)?
    override var onload: ((Event) -> dynamic)?
    override var onloadeddata: ((Event) -> dynamic)?
    override var onloadedmetadata: ((Event) -> dynamic)?
    override var onloadend: ((Event) -> dynamic)?
    override var onloadstart: ((Event) -> dynamic)?
    override var onplay: ((Event) -> dynamic)?
    override var onplaying: ((Event) -> dynamic)?
    override var onprogress: ((ProgressEvent) -> dynamic)?
    override var onratechange: ((Event) -> dynamic)?
    override var onreset: ((Event) -> dynamic)?
    override var onresize: ((Event) -> dynamic)?
    override var onscroll: ((Event) -> dynamic)?
    override var onseeked: ((Event) -> dynamic)?
    override var onseeking: ((Event) -> dynamic)?
    override var onshow: ((Event) -> dynamic)?
    override var onstalled: ((Event) -> dynamic)?
    override var onsubmit: ((Event) -> dynamic)?
    override var onvolumechange: ((Event) -> dynamic)?
    override var onwaiting: ((Event) -> dynamic)?
    override var ongotpointercapture: ((PointerEvent) -> dynamic)?
    override var onpointercancel: ((PointerEvent) -> dynamic)?
    override var onpointerdown: ((PointerEvent) -> dynamic)?
    override var onpointermove: ((PointerEvent) -> dynamic)?
    override var onpointerup: ((PointerEvent) -> dynamic)?
    override var oncopy: ((ClipboardEvent) -> dynamic)?
    override var oncut: ((ClipboardEvent) -> dynamic)?
    override var onpaste: ((ClipboardEvent) -> dynamic)?
    override var contentEditable: String
override val isContentEditable: Boolean
override val style: CSSStyleDeclaration
override val children: HTMLCollection
override val firstElementChild: Element?
override val lastElementChild: Element?
override val childElementCount: Int
override val previousElementSibling: Element?
override val nextElementSibling: Element?

override fun prepend(vararg nodes: dynamic)
override fun append(vararg nodes: dynamic)
override fun querySelector(selectors: String): Element?
override fun querySelectorAll(selectors: String): NodeList
override fun before(vararg nodes: dynamic)
override fun after(vararg nodes: dynamic)
override fun replaceWith(vararg nodes: dynamic)

override fun remove()
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>
override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad!
override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad?

override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint

companion object {
val NETWORK_EMPTY: Short
val NETWORK_IDLE: Short
val NETWORK_LOADING: Short
val NETWORK_NO_SOURCE: Short
val HAVE_NOTHING: Short
val HAVE_METADATA: Short
val HAVE_CURRENT_DATA: Short
val HAVE_FUTURE_DATA: Short
val HAVE_ENOUGH_DATA: Short
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 Option to Kotlin
 */
public external open class Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean = definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {
override var onabort: ((Event) -> dynamic)?
override var onblur: ((FocusEvent) -> dynamic)?
override var oncancel: ((Event) -> dynamic)?
override var oncanplay: ((Event) -> dynamic)?
override var oncanplaythrough: ((Event) -> dynamic)?
override var onchange: ((Event) -> dynamic)?
override var onclick: ((MouseEvent) -> dynamic)?
override var onclose: ((Event) -> dynamic)?
override var oncontextmenu: ((MouseEvent) -> dynamic)?
override var oncuechange: ((Event) -> dynamic)?
override var ondblclick: ((MouseEvent) -> dynamic)?
override var ondrag: ((DragEvent) -> dynamic)?
override var ondragend: ((DragEvent) -> dynamic)?
override var ondragenter: ((DragEvent) -> dynamic)?
override var ondragexit: ((DragEvent) -> dynamic)?
override var ondragleave: ((DragEvent) -> dynamic)?
override var ondragover: ((DragEvent) -> dynamic)?
override var ondragstart: ((DragEvent) -> dynamic)?
override var ondurationchange: ((Event) -> dynamic)?
override var onemptied: ((Event) -> dynamic)?
override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
override var onfocus: ((FocusEvent) -> dynamic)?
override var onkeydown: ((KeyboardEvent) -> dynamic)?
override var onkeypress: ((KeyboardEvent) -> dynamic)?
override var onkeyup: ((KeyboardEvent) -> dynamic)?
override var onmounted: ((Event) -> dynamic)?
override var onmessage: ((MessageEvent) -> dynamic)?
override var onreadystatechange: ((Event) -> dynamic)?
override var onbeforeunload: ((Document) -> boolean)?
override var onerror: ((ErrorEvent) -> dynamic)?
override var onmessage: ((MessageEvent) -> dynamic)?
override var onbeforeupdate: ((Event) -> dynamic)?
override var onfocus: ((FocusEvent) -> dynamic)?
override var onblur: ((FocusEvent) -> dynamic)?
override var onmouseover: ((Event) -> dynamic)?
override var onmouseout: ((Event) -> dynamic)?
override var onmousemove: ((Event) -> dynamic)?
override var onmousedown: ((MouseEvent) -> dynamic)?
override var onmouseup: ((MouseEvent) -> dynamic)?
override var oncontextmenu: ((MouseEvent) -> dynamic)?
override var onkeydown: ((KeyboardEvent) -> dynamic)?
override var onkeypress: ((KeyboardEvent) -> dynamic)?
override var onkeyup: ((KeyboardEvent) -> dynamic)?
override var onblur: ((FocusEvent) -> dynamic)?
override var onmousedown: ((MouseEvent) -> dynamic)?
override var onmouseup: ((MouseEvent) -> dynamic)?
override var onclick: ((InputEvent) -> dynamic)?
override var oncontextmenu: ((MouseEvent) -> dynamic)?
override var onkeydown: ((KeyboardEvent) -> dynamic)?
override var onkeypress: ((KeyboardEvent) -> dynamic)?
override var onkeyup: ((KeyboardEvent) -> dynamic)?
override var onmouseup: ((MouseEvent) -> dynamic)?
override var onpause: ((Event) -> dynamic)?
override var onplay: ((Event) -> dynamic)?
override var onplaying: ((Event) -> dynamic)?
override var onratechange: ((Event) -> dynamic)?
override var onreset: ((Event) -> dynamic)?
override var onresize: ((Event) -> dynamic)?
override var onscroll: ((Event) -> dynamic)?
override var onseeked: ((Event) -> dynamic)?
override var onseeking: ((Event) -> dynamic)?
override var onselect: ((Event) -> dynamic)?
override var onshow: ((Event) -> dynamic)?
override var onstalled: ((Event) -> dynamic)?
override var onsubmit: ((Event) -> dynamic)?
override var onwaiting: ((Event) -> dynamic)?
override var ongopointercapture: ((PointerEvent) -> dynamic)?
override var ononpointercancel: ((PointerEvent) -> dynamic)?
override var ononpointerend: ((PointerEvent) -> dynamic)?
override var ononpointermove: ((PointerEvent) -> dynamic)?
override var ononpointerdown: ((PointerEvent) -> dynamic)?
override var ononpointerup: ((PointerEvent) -> dynamic)?
override var ononpointerover: ((PointerEvent) -> dynamic)?
override var ononpointerleave: ((PointerEvent) -> dynamic)?
override var ononcut: ((ClipboardEvent) -> dynamic)?
override var ononpaste: ((ClipboardEvent) -> dynamic)?
override var onsetContentEditable: String?
override var val isContentEditable: Boolean?
override val style: CSSStyleDeclaration?
override val children: HTMLCollection?
override val firstElementChild: Element?
override val lastElementChild: Element?
override val childElementCount: Int?
override val previousElementSibling: Element?
override val nextElementSibling: Element?
override val assignedSlot: HTMLSlotElement?
override fun prepend(vararg nodes: dynamic)?
override fun append(vararg nodes: dynamic)?
override fun querySelector(selectors: String): Element?
override fun querySelectorAll(selectors: String): NodeList?
override fun before(vararg nodes: dynamic)?
override fun after(vararg nodes: dynamic)?
override fun replaceWith(vararg nodes: dynamic)?
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>?
override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad?
override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad?
override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint?

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 ENTITY_REFERENCE_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?
}

@public
public external interface

public external interface

public external interface

public external interface

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface
DocumentReadyState {\n companion object\n }\n
public inline val DocumentReadyState.Companion.LOADING:
    DocumentReadyState get() = "loading".asDynamic().unsafeCast<DocumentReadyState>()

    "interactive".asDynamic().unsafeCast<DocumentReadyState>()

    "complete".asDynamic().unsafeCast<DocumentReadyState>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanPlayTypeResult {
    companion object
}

public inline val CanPlayTypeResult.Companion.EMPTY:
    CanPlayTypeResult get() = "".asDynamic().unsafeCast<CanPlayTypeResult>()

public inline val CanPlayTypeResult.Companion.MAYBE:
    CanPlayTypeResult get() = "maybe".asDynamic().unsafeCast<CanPlayTypeResult>()

public inline val CanPlayTypeResult.Companion.PROBABLY:
    CanPlayTypeResult get() = "probably".asDynamic().unsafeCast<CanPlayTypeResult>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface TextTrackMode {
    companion object
}

public inline val TextTrackMode.Companion.DISABLED:
    TextTrackMode get() = "disabled".asDynamic().unsafeCast<TextTrackMode>()

public inline val TextTrackMode.Companion.HIDDEN:
    TextTrackMode get() = "hidden".asDynamic().unsafeCast<TextTrackMode>()

public inline val TextTrackMode.Companion.SHOWING:
    TextTrackMode get() = "showing".asDynamic().unsafeCast<TextTrackMode>()

public inline val TextTrackMode.Companion.PRESERVE:
    TextTrackMode get() = "preserve".asDynamic().unsafeCast<TextTrackMode>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasFillRule {
    companion object
}

public inline val CanvasFillRule.Companion.NONZERO:
    CanvasFillRule get() = "nonzero".asDynamic().unsafeCast<CanvasFillRule>()

public inline val CanvasFillRule.Companion.EVENODD:
    CanvasFillRule get() = "evenodd".asDynamic().unsafeCast<CanvasFillRule>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasSmoothingQuality {
    companion object
}

public inline val CanvasSmoothingQuality.Companion.LOW:
    CanvasSmoothingQuality get() = "low".asDynamic().unsafeCast<CanvasSmoothingQuality>()

public inline val CanvasSmoothingQuality.Companion.MEDIUM:
    CanvasSmoothingQuality get() = "medium".asDynamic().unsafeCast<CanvasSmoothingQuality>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasTimingSource {
    companion object
}

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\"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineCap
{
    companion object
}

public inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() =
\"butt\".asDynamic().unsafeCast<CanvasLineCap>()

public inline val CanvasLineCap.Companion.ROUND:
CanvasLineCap get() = \"round\".asDynamic().unsafeCast<CanvasLineCap>()

CanvasLineCap.Companion.SQUARE: CanvasLineCap get() =
\"square\".asDynamic().unsafeCast<CanvasLineCap>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineJoin
{
    companion object
}

public inline val CanvasLineJoin.Companion.ROUND:
CanvasLineJoin get() = \"round\".asDynamic().unsafeCast<CanvasLineJoin>()

public inline val CanvasLineJoin.Companion.BEVEL:
CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()

CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
\"miter\".asDynamic().unsafeCast<CanvasLineJoin>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasTextAlign
{
    companion object
}

public inline val CanvasTextAlign.Companion.START:
CanvasTextAlign get() = \"start\".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.END:
CanvasTextAlign get() = \"end\".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.LEFT:
CanvasTextAlign get() = \"left\".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.RIGHT:
CanvasTextAlign get() = \"right\".asDynamic().unsafeCast<CanvasTextAlign>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasTextBaseline
{
    companion object
}

public inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val CanvasTextBaseline.Companion.HANGING:
CanvasTextBaseline get() = \"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()

CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
\"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()

CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
\"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()

CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
\"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()

CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
\"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasDirection
{
    companion object
}

public inline val CanvasDirection.Companion.LTR:
CanvasDirection get() = \"ltr\".asDynamic().unsafeCast<CanvasDirection>()

public inline val CanvasDirection.Companion.RTL:
CanvasDirection get() = \"rtl\".asDynamic().unsafeCast<CanvasDirection>()

CanvasDirection.Companion.INHERIT: CanvasDirection get() =
\"inherit\".asDynamic().unsafeCast<CanvasDirection>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ScrollRestoration
{
    companion object
}

public inline val ScrollRestoration.Companion.AUTO:
ScrollRestoration get() = \"auto\".asDynamic().unsafeCast<ScrollRestoration>()

ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
\"manual\".asDynamic().unsafeCast<ScrollRestoration>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ImageOrientation
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() = \n"nearest".asDynamic().unsafeCast<ScrollLogicalPosition>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CSSBoxType {

companion object
}

public inline val CSSBoxType.Companion.MARGIN: CSSBoxType get() =
"margin".asDynamic().unsafeCast<CSSBoxType>()

public inline val CSSBoxType.Companion.BORDER: CSSBoxType get() =
"border".asDynamic().unsafeCast<CSSBoxType>()

public inline val CSSBoxType.Companion.PADDING: CSSBoxType get() =
"padding".asDynamic().unsafeCast<CSSBoxType>()

/*
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 */

// NOTE: THIS FILE IS AUTO-GENERATED,
// See github.com/kotlin/dukat for details

package org.w3c.fetch

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.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin
 */
public external open class Headers(init: dynamic = definedExternally) {
    fun append(name: String, value: String)
    fun delete(name: String)
    fun get(name: String): String?
    fun has(name: String): Boolean
    fun set(name: String, value: String)
}

/**
 * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to Kotlin
 */
public external interface Body {
    val bodyUsed: Boolean
    fun arrayBuffer(): Promise<ArrayBuffer>
    fun blob(): Promise<Blob>
    fun formData(): Promise<FormData>
    fun json(): Promise<Any?>
    fun text(): Promise<String>
}

/**
 * Exposes the JavaScript [Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin
 */
public external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {
    open val method: String
    open val url: String
    open val headers: Headers
    open val type: RequestType
    open val destination: RequestDestination
    open val referrer: String
    open val referrerPolicy: dynamic
    open val mode: RequestMode
    open val credentials: RequestCredentials
    open val cache: RequestCache
    open val redirect: RequestRedirect
    open val integrity: String
    open val keepalive: Boolean
    override val bodyUsed: Boolean
    fun clone(): Request
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): Promise<FormData>
    override fun json(): Promise<Any?>
    override fun text(): Promise<String>
}

public external interface RequestInit {
    var method: String?
        get() = definedExternally
        set(value) = definedExternally
    var headers: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var body: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var referrer: String?
        get() = definedExternally
        set(value) = definedExternally
    var referrerPolicy: dynamic
        get() = definedExternally
        set(value) = definedExternally
    var mode: RequestMode?
        get() = definedExternally
        set(value) = definedExternally
    var credentials: RequestCredentials?
        get() = definedExternally
        set(value) = definedExternally
    var cache: RequestCache?
        get() = definedExternally
        set(value) = definedExternally
    var integrity: String?
        get() = definedExternally
        set(value) = definedExternally
    var keepalive: Boolean
        get() = definedExternally
        set(value) = definedExternally
    var window: Any?
        get() = definedExternally
        set(value) = definedExternally
}
undefined, window: Any? = undefined): RequestInit {
    val o = js("({})")
    o["method"] = method
    o["headers"] = headers
    o["body"] = body
    o["referrer"] = referrer
    o["referrerPolicy"] = referrerPolicy
    o["mode"] = mode
    o["credentials"] = credentials
    o["cache"] = cache
    o["redirect"] = redirect
    o["integrity"] = integrity
    o["keepalive"] = keepalive
    o["window"] = window
    return o
}

/**
 * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin
 */
public external open class Response(body: dynamic = definedExternally, init: ResponseInit =
    definedExternally) : Body {
    open val type: ResponseType
    open val url: String
    open val redirected: Boolean
    open val status: Short
    open val ok: Boolean
    open val statusText: String
    open val headers: Headers
    open val body: dynamic
    open val trailer: Promise<Headers>

    fun clone(): Response
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): Promise<FormData>
    override fun json(): Promise<Any?>
    override fun text(): Promise<String>

    companion object {
        fun error(): Response
        fun redirect(url: String, status: Short = definedExternally): Response
    }
}

public external interface ResponseInit {
    var status: Short? /* = 200 */
        get() = definedExternally
        set(value) = definedExternally
    var statusText: String? /* = "OK" */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["status"] = status
    o["statusText"] = statusText
    o["headers"] = headers
    return o
}

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestType {
    companion object
}

public inline val RequestType.Companion.EMPTY: RequestType get() = "".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.AUDIO: RequestType get() = "audio".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.FONT: RequestType get() = "font".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.IMAGE: RequestType get() = "image".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.SCRIPT: RequestType get() = "script".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.STYLE: RequestType get() = "style".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.TRACK: RequestType get() = "track".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.VIDEO: RequestType get() = "video".asDynamic().unsafeCast<RequestType>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestDestination {
    companion object
}

public inline val RequestDestination.Companion.EMPTY: RequestDestination get() = "".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.DOCUMENT: RequestDestination get() = "document".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.EMBED: RequestDestination get() = "embed".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.FONT: RequestDestination get() = "font".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.IMAGE: RequestDestination get() = "image".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.MANIFEST: RequestDestination get() = "manifest".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.MEDIA: RequestDestination get() = "media".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.OBJECT: RequestDestination get() =
"object".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.REPORT: RequestDestination get() = "report".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SCRIPT: RequestDestination get() = "script".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SERVICETWORKER: RequestDestination get() = "serviceworker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SHAREDWORKER: RequestDestination get() = "sharedworker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.STYLE: RequestDestination get() = "style".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.WORKER: RequestDestination get() = "worker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.XSLT: RequestDestination get() = "xslt".asDynamic().unsafeCast<RequestDestination>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestMode {

    companion object
}

public inline val RequestMode.Companion.NAVIGATE: RequestMode get() = "navigate".asDynamic().unsafeCast<RequestMode>()

public inline val RequestMode.Companion.SAME_ORIGIN: RequestMode get() = "same-origin".asDynamic().unsafeCast<RequestMode>()

public inline val RequestMode.Companion.NO_CORS: RequestMode get() = "no-cors".asDynamic().unsafeCast<RequestMode>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestCredentials {

    companion object
}

public inline val RequestCredentials.Companion.OMIT: RequestCredentials get() = "omit".asDynamic().unsafeCast<RequestCredentials>()

public inline val RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = "same-origin".asDynamic().unsafeCast<RequestCredentials>()

public inline val RequestCredentials.Companion.INCLUDE: RequestCredentials get() = "include".asDynamic().unsafeCast<RequestCredentials>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestCache {

    companion object
}

public inline val RequestCache.Companion.DEFAULT: RequestCache get() = "default".asDynamic().unsafeCast<RequestCache>()

public inline val RequestCache.Companion.NO_STORE: RequestCache get() = "no-store".asDynamic().unsafeCast<RequestCache>()

public inline val RequestCache.Companion.RELOAD: RequestCache get() = "reload".asDynamic().unsafeCast<RequestCache>()

public inline val RequestCache.Companion.NO_CACHE: RequestCache get() = "no-cache".asDynamic().unsafeCast<RequestCache>()

public inline val RequestCache.Companion.FORCE_CACHE: RequestCache get() = "force-cache".asDynamic().unsafeCast<RequestCache>()

public inline val RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = "only-if-cached".asDynamic().unsafeCast<RequestCache>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestRedirect {

    companion object
}

public inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() = "follow".asDynamic().unsafeCast<RequestRedirect>()

public inline val RequestRedirect.Companion.ERROR: RequestRedirect get() = "error".asDynamic().unsafeCast<RequestRedirect>()

public inline val RequestRedirect.Companion.MANUAL: RequestRedirect get() = "manual".asDynamic().unsafeCast<RequestRedirect>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ResponseType
companion object {
    public inline val ResponseType.Companion.BASIC: ResponseType get() = "basic".asDynamic().unsafeCast<ResponseType>()
    public inline val ResponseType.Companion.CORS: ResponseType get() = "cors".asDynamic().unsafeCast<ResponseType>()
    public inline val ResponseType.Companion.DEFAULT: ResponseType get() = "default".asDynamic().unsafeCast<ResponseType>()
    public inline val ResponseType.Companion.ERROR: ResponseType get() = "error".asDynamic().unsafeCast<ResponseType>()
    public inline val ResponseType.Companion.OPAQUE: ResponseType get() = "opaque".asDynamic().unsafeCast<ResponseType>()
    public inline val ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() = "opaqueredirect".asDynamic().unsafeCast<ResponseType>()
}

public inline val ResponseType.Companion.BASIC: ResponseType get() = "basic".asDynamic().unsafeCast<ResponseType>()

public inline val ResponseType.Companion.CORS: ResponseType get() = "cors".asDynamic().unsafeCast<ResponseType>()

public inline val ResponseType.Companion.DEFAULT: ResponseType get() = "default".asDynamic().unsafeCast<ResponseType>()

public inline val ResponseType.Companion.ERROR: ResponseType get() = "error".asDynamic().unsafeCast<ResponseType>()

public inline val ResponseType.Companion.OPAQUE: ResponseType get() = "opaque".asDynamic().unsafeCast<ResponseType>()

public inline val ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() = "opaqueredirect".asDynamic().unsafeCast<ResponseType>()

/*
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 * NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
 * See github.com/kotlin/dukat for details.
 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
// See github.com/kotlin/dukat for details.

package org.w3c.dom.mediacapture

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.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.*

/**
 * Exposes the JavaScript MediaStream to Kotlin
 */
public external open class MediaStream() : EventTarget {
    constructor(stream: MediaStream)
    constructor(tracks: Array<MediaStreamTrack>)
    open val id: String
    open val active: Boolean
    var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?
    var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?
    fun getAudioTracks(): Array<MediaStreamTrack>
    fun getVideoTracks(): Array<MediaStreamTrack>
    fun getTracks(): Array<MediaStreamTrack>
    fun getTrackById(trackId: String): MediaStreamTrack?
    fun addTrack(track: MediaStreamTrack)
    fun removeTrack(track: MediaStreamTrack)
    fun clone(): MediaStream
}

/**
 * Exposes the JavaScript MediaStreamTrack to Kotlin
 */
public external abstract class MediaStreamTrack : EventTarget {
    open val kind: String
    open val id: String
    open val label: String
    open var enabled: Boolean
    open var muted: Boolean
    open var onmute: ((Event) -> dynamic)?
    open var onunmute: ((Event) -> dynamic)?
    open val readyState: MediaStreamTrackState
    open var onended: ((Event) -> dynamic)?
    open var onoverconstrained: ((Event) -> dynamic)?
    fun clone(): MediaStreamTrack
    fun stop(): Unit
    fun getCapabilities(): MediaTrackCapabilities
    fun getConstraints(): MediaTrackConstraints
    fun getSettings(): MediaTrackSettings
    fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>
}

/**
 * Exposes the JavaScript MediaStreamTrackEvent to Kotlin
 */
public external interface MediaStreamTrackEvent {
    var trackId: String?
    var type: MediaStreamTrackEventType
    fun getTrack(): MediaStreamTrack
    fun getTracks(): Array<MediaStreamTrack>
    fun getCapabilities(): MediaTrackCapabilities
    fun getConstraints(): MediaTrackConstraints
    fun getSettings(): MediaTrackSettings
    fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>
}

public interface MediaStreamConstraints {
    var audio: Boolean?
    var video: Boolean?
    fun applyConstraints(constraints: MediaStreamConstraints = definedExternally): Promise<Unit>
}

public interface MediaStreamTrackConstraints {
    var width: Number?
    var height: Number?
    var aspectRatio: Number?
    var frameRate: Number?
    var facingMode: MediaStreamTrackFacingMode?
    fun applyConstraints(constraints: MediaStreamTrackConstraints = definedExternally): Promise<Unit>
}

public interface MediaStreamTrackCapabilities {
    var echoCancellation: Boolean?
    var autoGainControl: Boolean?
    var noiseSuppression: Boolean?
    var latency: Number?
    fun applyConstraints(constraints: MediaStreamTrackCapabilities = definedExternally): Promise<Unit>
}

public interface MediaStreamTrackSettings {
    var echoCancellation: Boolean?
    var autoGainControl: Boolean?
    var noiseSuppression: Boolean?
    var latency: Number?
    fun applyConstraints(constraints: MediaStreamTrackSettings = definedExternally): Promise<Unit>
}

public interface MediaStreamCapabilities {
    var echoCancellation: Boolean?
    var autoGainControl: Boolean?
    var noiseSuppression: Boolean?
    var latency: Number?
    fun applyConstraints(constraints: MediaStreamCapabilities = definedExternally): Promise<Unit>
}

public interface MediaStreamEvent {
    var trackId: String?
    var type: MediaStreamTrackEventType
    fun getTrack(): MediaStreamTrack
    fun getTracks(): Array<MediaStreamTrack>
    fun getCapabilities(): MediaTrackCapabilities
    fun getConstraints(): MediaTrackConstraints
    fun getSettings(): MediaTrackSettings
    fun applyConstraints(constraints: MediaStreamConstraints = definedExternally): Promise<Unit>
}

public interface MediaStreamTrackEvent {
    var trackId: String?
    var type: MediaStreamTrackEventType
    fun getTrack(): MediaStreamTrack
    fun getTracks(): Array<MediaStreamTrack>
    fun getCapabilities(): MediaTrackCapabilities
    fun getConstraints(): MediaTrackConstraints
    fun getSettings(): MediaTrackSettings
    fun applyConstraints(constraints: MediaStreamConstraints = definedExternally): Promise<Unit>
}
```kotlin
definedExternally
val channelCount: Boolean? /* = true */
get() = definedExternally
set(value) = definedExternally

val deviceId: Boolean? /* = true */
get() = definedExternally
set(value) = definedExternally

val groupId: Boolean? /* = true */
get() = definedExternally
set(value) = definedExternally

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

public external interface MediaTrackCapabilities {
    var width: ULongRange?
        get() = definedExternally
        set(value) = definedExternally
    var height: ULongRange?
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: DoubleRange?
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: DoubleRange?
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
    var resizeMode: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
    var volume: DoubleRange?
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: ULongRange?
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: ULongRange?
        get() = definedExternally
        set(value) = definedExternally
    var echoCancellation: Array<Boolean>?
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: Array<Boolean>?
        get() = definedExternally
        set(value) = definedExternally
    var latency: DoubleRange?
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: ULongRange?
        get() = definedExternally
        set(value) = definedExternally
    var deviceId: String?
        get() = definedExternally
        set(value) = definedExternally
    var groupId: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/**
 * Exposes the JavaScript
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin
*/
public external interface MediaTrackConstraints : MediaTrackConstraintSet {
    var advanced: Array<MediaTrackConstraintSet>?
        get() = definedExternally
        set(value) = definedExternally
}
```

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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  return o\n}\n
public 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
/**
 * Exposes the JavaScript [MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n */
public 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() = 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: Int?\n    get() = definedExternally\n    set(value) = definedExternally\n  var channelCount: Int?\n    get() = definedExternally\n    set(value) = definedExternally\n  var deviceId: Int?\n    get() = definedExternally\n    set(value) = definedExternally\n  var groupId: Int?\n    get() = definedExternally\n    set(value) = definedExternally\n}
autoGainControl: Boolean?
    get() = definedExternally
    set(value) = definedExternally

var noiseSuppression: Boolean?
    get() = definedExternally
    set(value) = definedExternally

var latency: Double?
    get() = definedExternally
    set(value) = definedExternally

var channelCount: Int?
    get() = definedExternally
    set(value) = definedExternally

var deviceId: String?
    get() = definedExternally
    set(value) = definedExternally

var groupId: String?
    get() = definedExternally
    set(value) = definedExternally

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/**
 * Exposes the JavaScript [MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin
 */
public external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) : Event {
    open val track: MediaStreamTrack

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MediaStreamTrackEventInit : EventInit {
    var track: MediaStreamTrack?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["track"] = track
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin
 */
public external abstract class MediaDevices : EventTarget {
    open var ondevicechange: ((Event) -> dynamic)?
    fun enumerateDevices(): Promise<Array<MediaDeviceInfo>>
    fun getSupportedConstraints(): MediaStreamConstraints
    fun getUserMedia(constraints: MediaStreamConstraints = definedExternally): Promise<MediaStream>
}

/**
 * Exposes the JavaScript [MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin
 */
public external abstract class MediaDeviceInfo {
    open val deviceId: String
    open val kind: MediaDeviceKind
    open val label: String
    open val groupId: String
    fun toJSON(): dynamic
}

public external abstract class InputDeviceInfo : MediaDeviceInfo {
    fun getCapabilities(): MediaTrackCapabilities
}

/**
 * Exposes the JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to Kotlin
 */
public external interface MediaStreamConstraints {
    var video: dynamic /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var audio: dynamic /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun
MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {
    val o = js("{\"video\":false, \"audio\":false}\n    val o = js("{\"video\":false, \"audio\":false}\n
    fun get() = definedExternally\n    fun set(value) = definedExternally\n
    class ConstrainablePattern {
        var onoverconstrained: ((Event) -> dynamic)?
            get() = definedExternally
            set(value) = definedExternally

        fun getCapabilities(): Capabilities
        fun getConstraints(): Constraints
        fun getSettings(): Settings
        fun applyConstraints(constraints: Constraints): Constrained = definedExternally
    }

    class MediaStreamConstraints {
        fun get() = definedExternally
        fun set(value) = definedExternally

        @kotlin.internal.InlineOnly
        public inline fun constraintSet(): ConstraintSet = definedExternally

        class ConstraintSet {
            val o = js("{\"exact\":true, \"ideal\":true}\n
            fun get(): ConstraintSet = definedExternally
            fun set(value: ConstraintSet) = definedExternally

            class Constraint {
                var exact: Double?
                    get() = definedExternally
                    set(value) = definedExternally

                var ideal: Double?
                    get() = definedExternally
                    set(value) = definedExternally

                fun toString(): String
            }

            fun getSettings(): Settings
            fun applyConstraints(constraints: Constraint[]): ConstraintSet = definedExternally
        }
    }
}

{DoubleRange} to Kotlin

**Exposed the JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin

```
public external interface DoubleRange {
    var max: Double?
        get() = definedExternally
        set(value) = definedExternally

    var min: Double?
        get() = definedExternally
        set(value) = definedExternally

    fun toString(): String
}
```

```
@kotlin.internal.InlineOnly
public inline fun DoubleRange(max: Double? = undefined,
                              min: Double? = undefined): DoubleRange {
    val o = js("{\"max\":\$max, \"min\":\$min}\n    o[\"max\"] = max
    o[\"min\"] = min

    return o
}
```

**Exposed the JavaScript [ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to Kotlin

```
public external interface ConstrainBooleanParameters {
    var exact: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    var ideal: Boolean?
        get() = definedExternally
        set(value) = definedExternally

    fun toString(): String
}
```

```
@kotlin.internal.InlineOnly
public inline fun ConstrainBooleanParameters(exact: Boolean? = undefined,
                                              ideal: Boolean? = undefined): ConstrainBooleanParameters {
    val o = js("{\"exact\":\$exact, \"ideal\":\$ideal}\n    o[\"exact\"] = exact
    o[\"ideal\"] = ideal

    return o
}
```

**Exposed the JavaScript [ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to Kotlin

```
public external interface ConstrainDOMStringParameters {
    var exact: dynamic
        get() = definedExternally
        set(value) = definedExternally

    var ideal: dynamic
        get() = definedExternally
        set(value) = definedExternally

    fun toString(): String
}
```

```
@kotlin.internal.InlineOnly
public inline fun ConstrainDOMStringParameters(exact: dynamic = undefined,
                                               ideal: dynamic = undefined): ConstrainDOMStringParameters {
    val o = js("{\"exact\":\$exact, \"ideal\":\$ideal}\n    o[\"exact\"] = exact
    o[\"ideal\"] = ideal

    return o
}
```

Please, don't implement this interface!
/* don't implement this interface! */
public external interface MediaStreamTrackState {
    companion object
}

public inline val MediaStreamTrackState.Companion.LIVE:
    MediaStreamTrackState get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>()

public inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = "ended".asDynamic().unsafeCast<MediaStreamTrackState>()

/* please, don't implement this interface! */
public external interface VideoFacingModeEnum {
    companion object
}

public inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = "user".asDynamic().unsafeCast<VideoFacingModeEnum>()


public inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = "left".asDynamic().unsafeCast<VideoFacingModeEnum>()

public inline val VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() = "right".asDynamic().unsafeCast<VideoFacingModeEnum>()

/* please, don't implement this interface! */
public external interface VideoResizeModeEnum {
    companion object
}

public inline val VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() = "none".asDynamic().unsafeCast<VideoResizeModeEnum>()


/* please, don't implement this interface! */
public external interface MediaDeviceKind {
    companion object
}

public inline val MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() = "audioinput".asDynamic().unsafeCast<MediaDeviceKind>()

public inline val MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() = "audiooutput".asDynamic().unsafeCast<MediaDeviceKind>()

public inline val MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() = "videoinput".asDynamic().unsafeCast<MediaDeviceKind>()

/* Copyright 2010-2019 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. * */

    val o = js("({})")
    o["pointerId"] = pointerId
    o["width"] = width
    o["height"] = height
    o["pressure"] = pressure
    o["tangentialPressure"] = tangentialPressure
    o["tiltX"] = tiltX
    o["tiltY"] = tiltY
    o["twist"] = twist
    o["pointerType"] = pointerType
    o["isPrimary"] = isPrimary
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin
 */
public external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {
    open val pointerId: Int
    open val width: Double
    open val height: Double
    open val pressure: Float
    open val tangentialPressure: Float
    open val tiltX: Int
    open val tiltY: Int
    open val twist: Int
    open val pointerType: String
    open val isPrimary: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}
definedExternally
  var stroke: Boolean? /* = false */
    get() = definedExternally
    set(value) =

definedExternally
  var markers: Boolean? /* = false */
    get() = definedExternally
    set(value) =

definedExternally
  var clipped: Boolean? /* = false */
    get() = definedExternally
    set(value) =

@kotlin.internal.InlineOnly

val o = js("({})")
  o["fill"] = fill
  o["stroke"] = stroke
  o["markers"] = markers
  o["clipped"] = clipped
  return o
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGGraphicsElement : SVGElement, SVGTests {
  open val transform: SVGAnimatedTransformList
  fun getBBox(options: SVGBoundingBoxOptions = definedExternally):
    DOMRect
  fun getCTM(): DOMMatrix?
  fun getScreenCTM(): DOMMatrix?

  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
  }
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGGeometryElement : SVGGraphicsElement {
  open val pathLength: SVGAnimatedNumber
  fun isPointInFill(point: DOMPoint): Boolean
  fun isPointInStroke(point: DOMPoint): Boolean
  fun getTotalLength(): Float
  fun getPointAtLength(distance: Float): DOMPoint

  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
  }
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGNumber {
  open var value: Float
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGLength {
  open val unitType: Short
  open var value: Float
  open var valueInSpecifiedUnits: Float
  open var valueAsString: String
  fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)
  fun convertToSpecifiedUnits(unitType: Short)

  companion object {
    val SVG_LENGTHTYPE_UNKNOWN: Short
    val SVG_LENGTHTYPE_NUMBER: Short
    val SVG_LENGTHTYPE_PERCENTAGE: Short
    val SVG_LENGTHTYPE_EMS: Short
    val SVG_LENGTHTYPE_EXS: Short
    val SVG_LENGTHTYPE_PX: Short
    val SVG_LENGTHTYPE_CM: Short
    val SVG_LENGTHTYPE_MM: Short
    val SVG_LENGTHTYPE_IN: Short
    val SVG_LENGTHTYPE_PT: Short
    val SVG_LENGTHTYPE_PC: Short
  }
}

/**
 * Exposes the JavaScript
 */
public external abstract class SVGAngle {
  open val unitType: Short
  open var value: Float
  open var valueInSpecifiedUnits: Float
  fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)
  fun convertToSpecifiedUnits(unitType: Short)

  companion object {
    val SVG_ANGLETYPE_UNKNOWN: Short
    val SVG_ANGLETYPE_NUMBER: Short
    val SVG_ANGLETYPE_DEG: Short
    val SVG_ANGLETYPE_RAD: Short
    val SVG_ANGLETYPE_GRAD: Short
  }
}

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Float
fun convertToSpecifiedUnits(unitType: Short) companion object {
    val SVG_ANGLETYPE_UNKNOWN: Short
    val SVG_ANGLETYPE_UNSPECIFIED: Short
    val SVG_ANGLETYPE_DEG: Short
    val SVG_ANGLETYPE_RAD: Short
    val SVG_ANGLETYPE_GRAD: Short
    fun open val numberOfItems: Int
    fun clear() fun initialize(newItem: dynamic) dynamic
    fun insertItemBefore(newItem: dynamic, index: Int): dynamic
    fun replaceItem(newItem: dynamic, index: Int): dynamic
    fun removeItem(index: Int): dynamic
    fun appendItem(newItem: dynamic): dynamic
    fun getItem(index: Int): dynamic
    companion object {
        val SVG_ANGLETYPE_UNKNOWN: Short
        val SVG_ANGLETYPE_UNSPECIFIED: Short
        val SVG_ANGLETYPE_DEG: Short
        val SVG_ANGLETYPE_RAD: Short
        val SVG_ANGLETYPE_GRAD: Short
    }
}

public external abstract class SVGNameList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: dynamic): dynamic
    fun insertItemBefore(newItem: dynamic, index: Int): dynamic
    fun replaceItem(newItem: dynamic, index: Int): dynamic
    fun removeItem(index: Int): dynamic
    fun appendItem(newItem: dynamic): dynamic
    fun getItem(index: Int): dynamic
}

@kotlin.internal.InlineOnly
public inline operator fun SVGNameList.get(index: Int): dynamic = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGNameList.set(index: Int, newItem: dynamic) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin
 */
public external abstract class SVGNumberList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: SVGLength): SVGLength
    fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength
    fun replaceItem(newItem: SVGLength, index: Int): SVGLength
    fun removeItem(index: Int): SVGLength
    fun appendItem(newItem: SVGLength): SVGLength
    fun getItem(index: Int): SVGLength
}

@kotlin.internal.InlineOnly
public inline operator fun SVGNumberList.get(index: Int): SVGLength? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGNumberList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin
 */
public external abstract class SVGLengthList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: SVGLength): SVGLength
    fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength
    fun replaceItem(newItem: SVGLength, index: Int): SVGLength
    fun removeItem(index: Int): SVGLength
    fun appendItem(newItem: SVGLength): SVGLength
    fun getItem(index: Int): SVGLength
}

@kotlin.internal.InlineOnly
public inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin
 */
public external abstract class SVGAnimatedBoolean {
    open var baseVal: Boolean
    open val animVal: Boolean
}

/**
 * Exposes the JavaScript [SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin
 */
public external abstract class SVGAnimatedEnumeration {
    open var baseVal: Short
    open val animVal: Short
}

/**
 * Exposes the JavaScript [SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin
 */
public external abstract class SVGAnimatedInteger {
    open var baseVal: Int
    open val animVal: Int
}

/**
 * Exposes the JavaScript [SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin
 */
public external abstract class SVGAnimatedNumber {
    open var baseVal: Float
    open val animVal: Float
}

/**
 * Exposes the JavaScript [SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin
 */
public external abstract class SVGAnimatedLength {
    open val baseVal: SVGLength
    open val animVal: SVGLength
}

/**
 * Exposes the JavaScript [SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin
 */
public external abstract class SVGAnimatedAngle {
    open val baseVal: SVGAngle
    open val animVal: SVGAngle
}

/**
 * Exposes the JavaScript [SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin
 */
public external abstract class SVGAnimatedString {
    open var baseVal: String
    open val animVal: String
}

/**
 * Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin
 */
public external abstract class SVGAnimatedRect {
    open val baseVal: SVGRect
    open val animVal: SVGRect
}
to Kotlin

```kotlin
/**
 * Exposes the JavaScript
 * [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin
 */
public abstract class SVGAnimatedRect {
    open val baseVal: DOMRect
    open val animVal: DOMRectReadOnly
}

/**
 * Exposes the JavaScript
 * [SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin
 */
public abstract class SVGAnimatedNumberList {
    open val baseVal: SVGNumberList
    open val animVal: SVGNumberList
}

/**
 * Exposes the JavaScript
 * [SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin
 */
public abstract class SVGAnimatedLengthList {
    open val baseVal: SVGLengthList
    open val animVal: SVGLengthList
}

/**
 * Exposes the JavaScript
 * [SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin
 */
public abstract class SVGStringList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun insertItemBefore(newItem: String, index: Int): String
    fun replaceItem(newItem: String, index: Int): String
    fun appendItem(newItem: String): String
    fun getItem(index: Int): String
}

@kotlin.internal.InlineOnly
public inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript
 * [SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin
 */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public interface SVGUnitTypes {
    companion object {
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
    }
}

/**
 * Exposes the JavaScript
 * [SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin
 */
public interface SVGTests {
    val requiredExtensions: SVGStringList
    val systemLanguage: SVGStringList
}

public interface SVGFitToViewBox {
    val viewBox: SVGAnimatedRect
    val preserveAspectRatio: SVGAnimatedPreserveAspectRatio
}

/**
 * Exposes the JavaScript
 * [SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin
 */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public interface SVGZoomAndPan {
    var zoomAndPan: Short

    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
    }
}

/**
 * Exposes the JavaScript
 * [SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin
 */
public interface SVGURIReference {
    val href: SVGAnimatedString
}

/**
 * Exposes the JavaScript
 * [SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin
 */
public abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open var currentScale: Float
    open val currentTranslate: DOMPointReadOnly
    fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList
    fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList
    fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean
    fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean
    fun deselectAll()
    fun createSVGNumber(): SVGNumber
    fun createSVGLength(): SVGLength
    fun createSVGAngle(): SVGAngle
    fun createSVGPoint(): DOMPoint
    fun createSVGMatrix(): DOMMatrix
    fun createSVGRect(): DOMRect
    fun createSVGTransform(): SVGTransform
    fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform
    fun getElementById(elementId: String): Element
    fun suspendRedraw(maxWaitMilliseconds: Int): Int
    fun unsuspendRedrawHandle(): Int
    fun forceRedraw()

    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
        val ELEMENT_NODE: Short
        ...
```
/**
 * Exposes the JavaScript [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElem...
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 [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin
 */
public external abstract class SVGMetadataElement : SVGElement {
    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 [SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin
 */
public external abstract class SVGTitleElement : SVGElement {
    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 [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin
 */
public external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {
    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 [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin
 */
public external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val instanceRoot: SVGElement?
    open val animatedInstanceRoot: SVGElement?

    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
    }
}
the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin

```kotlin
public external abstract class SVGTransformList {
    open val length: Int
    open val numberOfItems: Int

    fun clear()
    fun initialize(newItem: SVGTransform): SVGTransform
    fun insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform
    fun replaceItem(newItem: SVGTransform, index: Int): SVGTransform
    fun removeItem(index: Int): SVGTransform
    fun appendItem(newItem: SVGTransform): SVGTransform
    fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform
    fun consolidate(): SVGTransform?
    fun getItem(index: Int): SVGTransform
}

@kotlin.internal.InlineOnly
public inline operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }
```

*/

```java
/**
 * Exposes the JavaScript [SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to Kotlin
 */
public external abstract class SVGAnimatedTransformList {
    open val baseVal: SVGTransformList
    open val animVal: SVGTransformList
}

/**
 * Exposes the JavaScript [SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin
 */
public external abstract class SVGPreserveAspectRatio {
    open var align: Short
    open var meetOrSlice: Short

    companion object {
        val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short
        val SVG_PRESERVEASPECTRATIO_NONE: Short
        val SVG_PRESERVEASPECTRATIO_XMINYMIN: Short
        val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short
        val SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short
        val SVG_PRESERVEASPECTRATIO_XMINYMID: Short
        val SVG_PRESERVEASPECTRATIO_XMIDYMID: Short
        val SVG_PRESERVEASPECTRATIO_XMAXYMID: Short
        val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short
        val SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short
        val SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short
        val SVG_MEETORSLICE_UNKNOWN: Short
        val SVG_MEETORSLICE_MEET: Short
        val SVG_MEETORSLICE_SLICE: Short
    }
}

/**
 * Exposes the JavaScript [SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspectRatio) to Kotlin
 */
public external abstract class SVGAnimatedPreserveAspectRatio {
    open val baseVal: SVGPreserveAspectRatio
    open val animVal: SVGPreserveAspectRatio
}

/**
 * Exposes the JavaScript [SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin
 */
public external abstract class SVGPathElement : SVGGeometryElement {
    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_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin
 */
public external abstract class SVGRectElement : SVGGeometryElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val rx: SVGAnimatedLength
    open val ry: SVGAnimatedLength

    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
    }
```
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 [SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin */
public external abstract class SVGCircleElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val r: SVGAnimatedLength

    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 [SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin */
public external abstract class SVGEllipseElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val rx: SVGAnimatedLength
    open val ry: SVGAnimatedLength

    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 [SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin */
public external abstract class SVGLineElement : SVGGeometryElement {
    open val x1: SVGAnimatedLength
    open val y1: SVGAnimatedLength
    open val x2: SVGAnimatedLength
    open val y2: SVGAnimatedLength

    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 [SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin */
public external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {
    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\nval DOCUMENT_TYPE_NODE: Short\nval DOCUMENT_FRAGMENT_NODE: Short\nval NOTATION_NODE: Short\nval DOCUMENT_POSITION_DISCONNECTED: Short\nval DOCUMENT_POSITION_PRECEDING: Short\nval DOCUMENT_POSITION_FOLLOWING: Short\nval DOCUMENT_POSITION_CONTAINS: Short\nval DOCUMENT_POSITION_CONTAINEDBY: Short\nval DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
1.2.2.4

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_CONTAINEDBY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin
 */
public
external interface SVGAnimatedPoints {
    val points: SVGPointList
    val animatedPoints: SVGPointList
}

public external abstract class SVGPointList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: DOMPoint): DOMPoint
    fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint
    fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint
    fun removeItem(index: Int): DOMPoint
    fun appendItem(newItem: DOMPoint): DOMPoint
    fun getItems(index: Int): DOMPoint
    fun getItem(index: Int): Array<DOMPoint?>
    fun asDynamic()
    fun asDynamic(): DOMPoint?
    fun asDynamic(index: Int): DOMPoint?
}

@kotlin.internal.InlineOnly
public inline operator fun SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin
 */
public external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {
    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_CONTAINEDBY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
[SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin
 */
public external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {
    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_CONTAINEDBY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript
[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin
 */
public external abstract class SVGTextContentElement : SVGGraphicsElement {
    open val textLength: SVGAnimatedLength
    open val lengthAdjust: SVGAnimatedEnumeration
    fun getNumberOfChars(): Int
    fun getComputedTextLength(): Float
    fun getSubStringLength(charnum: Int, nchars: Int): Float
    fun getStartPositionOfChar(charnum: Int): DOMPoint
    fun getEndPositionOfChar(charnum: Int): DOMPoint
    fun getExtentOfChar(charnum: Int): DOMRect
    fun getRotationOfChar(charnum: Int): Float
    fun getCharNumAtPosition(point: DOMPoint): Int
    fun selectSubString(charnum: Int, nchars: Int)

    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        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_CONTAINEDBY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
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
[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to
Kotlin
 */
public external abstract class SVGTextPositioningElement : SVGTextContentElement {
    open val x: SVGAnimatedLengthList
    open val y: SVGAnimatedLengthList
    open val dx: SVGAnimatedLengthList
    open val dy: SVGAnimatedLengthList
    open val rotate: SVGAnimatedNumberList

    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        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
[SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin
 */
public external abstract class SVGTextElement : SVGTextPositioningElement {
    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        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
    }
}

/**
 * Exposes the JavaScript
[SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin
 */
public external abstract class SVGTSpanElement : SVGTextPositioningElement {
    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        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
    }
}
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin in
 */
public external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {
    open val startOffset: SVGAnimatedLength
    open val method: SVGAnimatedEnumeration
    open val spacing: SVGAnimatedEnumeration
    companion object {
        val TEXTPATH_METHODTYPE_UNKNOWN: Short
        val TEXTPATH_METHODTYPE_ALIGN: Short
        val TEXTPATH_METHODTYPE_STRETCH: Short
        val TEXTPATH_SPACINGTYPE_UNKNOWN: Short
        val TEXTPATH_SPACINGTYPE_AUTO: Short
        val TEXTPATH_SPACINGTYPE_EXACT: Short
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
    }
}

/**
 * Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin
 */
public external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGImageElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open var crossOrigin: 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 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
    }
}

/**
 * Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin in
 */
public external abstract class SVGForeignObjectElement : SVGGraphicsElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength

    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 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
    }
}

public external abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {
    open val refX: SVGAnimatedLength
    open val refY: SVGAnimatedLength
    open val markerUnits: SVGAnimatedEnumeration
    open val markerWidth:
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SVGAnimatedLength
    open val markerHeight: SVGAnimatedLength
    open val orientType:
    fun setOrientToAuto(): fun setOrientToAngle(angular: SVGAngle): companion object {
        fun SVG_MARKERUNITS_UNKNOWN: Short
            val SVG_MARKERUNITS_USERSPACEONUSE: Short
            val SVG_MARKERUNITS_STROKEWIDTH: Short
            val SVG_MARKER_ORIENT_UNKNOWN: Short
            val SVG_MARKER_ORIENT_AUTO: Short
            val SVG_MARKER_ORIENT_ANGLE: Short
            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 DOCUMENT_NODE: Short
            val DOCUMENT_TYPE_NODE: Short
            val DOCUMENT_FRAGMENT_NODE: Short
            val DOCUMENT_POSITION_DISCONNECTED: 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 [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin
         */
        public external abstract class SVGSolidcolorElement : SVGElement {
            companion object {
                fun ELEMENT_NODE: Short
                fun ATTRIBUTE_NODE: Short
                fun TEXT_NODE: Short
                val CDATA_SECTION_NODE: Short
                val ENTITY_REFERENCE_NODE: Short
                val ENTITY_NODE: Short
                val DOCUMENT_NODE: Short
                val DOCUMENT_TYPE_NODE: Short
                val DOCUMENT_FRAGMENT_NODE: Short
                val DOCUMENT_POSITION_DISCONNECTED: 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 [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin
         */
        public external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {
            open val gradientUnits: SVGAnimatedEnumeration
            open val gradientTransform: SVGAnimatedTransformList
            open val spreadMethod: SVGAnimatedEnumeration

            companion object {
                fun SVG_SPREADMETHOD_UNKNOWN: Short
                fun SVG_SPREADMETHOD_PAD: Short
                fun SVG_SPREADMETHOD_REPEAT: Short
                fun SVG_UNIT_TYPE_UNKNOWN: Short
                fun SVG_UNIT_TYPE_USERSPACEONUSE: Short
                fun SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
                fun 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 DOCUMENT_NODE: Short
                val DOCUMENT_TYPE_NODE: Short
                val DOCUMENT_FRAGMENT_NODE: Short
                val DOCUMENT_POSITION_DISCONNECTED: 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 [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin
         */
        public external abstract class SVGLinearGradientElement : SVGGradientElement {
            open val x1: SVGAnimatedLength
            open val y1: SVGAnimatedLength
            open val x2: SVGAnimatedLength
            open val y2: SVGAnimatedLength
            companion object {
                fun SVG_SPREADMETHOD_UNKNOWN: Short
                fun SVG_SPREADMETHOD_PAD: Short
                fun SVG_SPREADMETHOD_REPEAT: Short
                fun SVG_UNIT_TYPE_UNKNOWN: Short
                fun SVG_UNIT_TYPE_USERSPACEONUSE: Short
                fun SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
                fun 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 DOCUMENT_NODE: Short
                val DOCUMENT_TYPE_NODE: Short
                val DOCUMENT_FRAGMENT_NODE: Short
                val DOCUMENT_POSITION_DISCONNECTED: 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 [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin
 */
public external abstract class SVGRadialGradientElement : SVGGradientElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val r: SVGAnimatedLength
    open val fx: SVGAnimatedLength
    open val fy: SVGAnimatedLength
    open val fr: SVGAnimatedLength

    companion object {
        val SVG_SPREADMETHOD_UNKNOWN: Short
        val SVG_SPREADMETHOD_PAD: Short
        val SVG_SPREADMETHOD_REFLECT: Short
        val SVG_SPREADMETHOD_REPEAT: Short
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_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
    }
}

public external abstract class SVGMeshGradientElement : SVGGradientElement {
    companion object {
        val SVG_SPREADMETHOD_UNKNOWN: Short
        val SVG_SPREADMETHOD_PAD: Short
        val SVG_SPREADMETHOD_REFLECT: Short
        val SVG_SPREADMETHOD_REPEAT: Short
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_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
    }
}

public external abstract class SVGMeshrowElement : SVGElement {
    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 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_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

SVG HatchpathElement : SVGElement 

ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITY_REFERENCE_NODE: Short
val ENTITY_NODE: Short

PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short

DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short

DOCUMENT_FRAGMENT_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

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

- Exposes the JavaScript [SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin
- Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin
- Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin

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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 [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin
 */
public
external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {

    companion object {

        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
        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 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
    }
}

/*
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 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
// See github.com/kotlin/dukat for details

package org.w3c.files

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.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin
 */
public external open class Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) : ImageBitmapSource {
    open val size: Number
    open val type: String
    open val isClosed: Boolean
    fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally): Blob
    fun close()
}

public external interface BlobPropertyBag {
    var type: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun BlobPropertyBag(type: String? = ""): BlobPropertyBag {
    val o = js("({})")
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin
 */
public external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {
    open val name: String
    open val lastModified: Int
}

public external interface FilePropertyBag : BlobPropertyBag {
    var lastModified: Int?
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun FilePropertyBag(lastModified: Int? = undefined, type: String? = ""): FilePropertyBag {
    val o = js("({})")
    o["lastModified"] = lastModified
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript [FileList](https://developer.mozilla.org/en/docs/Web/API/FindList) to Kotlin
 */
public external abstract class FileList : ItemArrayLike<File> {
    override fun item(index: Int): File?
}

@kotlin.internal.InlineOnly
public operator fun FileList.get(index: Int): File? = asDynamic()[index]

/**
 * Exposes the JavaScript [FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin
 */
public external open class FileReader : EventTarget {
    open val readyState: Short
    open val loading: Short
    open val error: dynamic
    open val onerror: ((Event) -> dynamic)
    open val onabort: ((Event) -> dynamic)
    open val onprogress: ((ProgressEvent) -> dynamic)
    open val oncomplete: ((Event) -> dynamic)
    open val onemptystate: ((Event) -> dynamic)
    fun readAsArrayBuffer(blob: Blob): Blob
    fun readAsBinaryString(blob: Blob): Blob
    fun readAsText(blob: Blob, label: String = definedExternally): Blob
    fun readAsDataURL(blob: Blob): Blob
    fun abort(): |
    companion object {
        val EMPTY: String
        val LOADING: String
        val DONE: String
    }
}
Short

\[\text{Exposes the JavaScript FileReaderSync (https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin: }
\]

\[
\text{fun readAsArrayBuffer(blob: Blob): ArrayBuffer; readAsText(blob: Blob, label: String = definedExternally): String; readAsBinaryString(blob: Blob): String; readAsDataURL(blob: Blob): String; n} \]

\[
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\text{Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. n} \]

\[
\text{See github.com/kotlin/dkotlin for details. n} \]

\[
\text{Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6343} \]
ServiceWorkerState

open val onstatechange: ((Event) -> dynamic)?

fun postMessage(message: Any?,
transfer: Array<dynamic> = definedExternally)

fun showNotification(title: String, options: NotificationOptions = definedExternally): Promise<Unit>

fun unregister(): Promise<Unit>

fun getNotifications(filter: GetNotificationOptions = definedExternally): Promise<Array<Notification>>

fun methodName(): Promise<dynamic>

/**
 * Exposes the JavaScript [ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to Kotlin
 */

public external abstract class ServiceWorkerRegistration : EventTarget {

open val installing: ServiceWorker?

open val waiting: ServiceWorker?

open val active: ServiceWorker?

open val scope: String

open var onupdatefound: ((Event) -> dynamic)?

open val APISpace: dynamic

fun update(): Promise<Unit>

fun unregister(): Promise<Boolean>

fun showNotification(title: String, options: NotificationOptions = definedExternally): Promise<Unit>

fun getNotifications(filter: GetNotificationOptions = definedExternally): Promise<Array<Notification>>

fun methodName(): Promise<dynamic>

/**
 * Exposes the JavaScript [ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin
 */

public external abstract class ServiceWorkerContainer : EventTarget {

open val controller: ServiceWorker?

open val ready: Promise<ServiceWorkerRegistration>

open var oncontrollerchange: ((Event) -> dynamic)?

fun register(scriptURL: String,
options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>

fun getRegistration(clientURL: String = definedExternally): Promise<Any?>

fun getRegistrations(): Promise<Array<ServiceWorkerRegistration>>

fun startMessages()

public external interface RegistrationOptions {

var scope: String?
    get() = definedExternally
    set(value) = definedExternally

var type: WorkerType? /* = WorkerType.CLASSIC */
    get() = definedExternally
    set(value) = definedExternally

@kotlin.internal.InlineOnly
public inline fun RegistrationOptions(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {
    val o = js("({})")
    o["scope"] = scope
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript [ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to Kotlin
 */

public external open class ServiceWorkerMessageEvent(type: String, eventInitDict: ServiceWorkerMessageEventInit = definedExternally) : Event {

open val data: Any?

open val origin: String

open val lastEventId: String

open val source: UnionMessagePortOrServiceWorker?

open val ports: Array<MessagePort>?

companion object {

val NONE: Short

val CAPTURING_PHASE: Short

val AT_TARGET: Short

val BUBBLING_PHASE: Short

}

public external interface ServiceWorkerMessageEventInit : EventInit {

var data: Any?
    get() = definedExternally
    set(value) = definedExternally

var origin: String?
    get() = definedExternally
    set(value) = definedExternally

var lastEventId: String?
    get() = definedExternally
    set(value) = definedExternally

var ports: Array<MessagePort>?
    get() = definedExternally
    set(value) = definedExternally

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["data"] = data
    o["origin"] = origin
    o["lastEventId"] = lastEventId
    o["source"] = source
    o["ports"] = ports
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to Kotlin
 */

public external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {

open val clients: Clients

open val registration: ServiceWorkerRegistration

open var oninstall: ((Event) -> dynamic)?

open var onactivate: ((Event) -> dynamic)?

open var onfetch: ((FetchEvent) -> dynamic)?

open var onmessage: ((MessageEvent) -> dynamic)?

open var onnotificationclick: ((NotificationEvent) -> dynamic)?

open var onnotificationclose: ((NotificationEvent) -> dynamic)?

open val onfunctionalevent: ((Event) -> dynamic)?

fun skipWaiting():

Promise<Unit>
public external abstract class Client :
    UnionClientOrMessagePortOrServiceWorker {
    open val url: String
    open val frameType: FrameType
    open val id: String
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
}

/**
 * Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to Kotlin
 */
public external abstract class WindowClient : Client {
    open val visibilityState: dynamic
    open val focused: Boolean
    fun focus(): Promise<WindowClient>
    fun navigate(url: String):
}

/**
 * Exposes the JavaScript [Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin
 */
public external abstract class Clients {
    fun get(id: String): Promise<Any?>
    fun matchAll(options: ClientQueryOptions = definedExternally): Promise<Array<Client>>
    fun openWindow(url: String): Promise<WindowClient?>
    fun claim(): Promise<Unit>
}

public external interface ClientQueryOptions {
    var includeUncontrolled: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var type: ClientType? /* = ClientType.WINDOW */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {
    val o = js("({})")
    o["includeUncontrolled"] = includeUncontrolled
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin
 */
public external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {
    fun waitUntil(f: Promise<Any?>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ExtendableEventInit : EventInit

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin
 */
public external open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {
    open val request: Request
    open val clientId: String?
    open val isReload: Boolean
    fun respondWith(r: Promise<Response>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface FetchEventInit : ExtendableEventInit {
    var request: Request?
        get() = definedExternally
        set(value) = definedExternally
    var clientId: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var isReload: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["request"] = request
    o["clientId"] = clientId
    o["isReload"] = isReload
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [ForeignFetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin
 */
public external open class ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {
    open val request: Request
    open val origin: String
    fun respondWith(r: Promise<ForeignFetchResponse>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ForeignFetchEventInit : ForeignFetchEventInit {
    var scopes: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
    var origins: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ForeignFetchEventInit(scopes: Array<String>?, origins: Array<String>?): ForeignFetchEventInit {
    val o = js("({})")
    o["scopes"] = scopes
    o["origins"] = origins
    return o
}

/**
 * Exposes the JavaScript [InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin
 */
public external open class InstallEvent(type: String, eventInitDict: InstallEventInit) : ExtendableEvent {
    fun registerForeignFetch(extendableFetchOptions: ForeignFetchOptions)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ForeignFetchOptions {
    var scopes: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
    var origins: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {
    val o = js("({})")
    o["scopes"] = scopes
    o["origins"] = origins
    return o
}
BUBBLING_PHASE: Short

public external interface ForeignFetchEventInit : ExtendableEventInit {
    var request: Request? get() = definedExternally
    set(value) = definedExternally
    var origin: String?
        get() = definedExternally
        set(value) = definedExternally
    var bubbles: Boolean?
        get() = false
        set(value) = false
    var cancelable: Boolean?
        get() = false
        set(value) = false
}

ForeignFetchEventInit { 
    val o = js("{}")
    o["request"] = request
    o["origin"] = origin
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return
}

public external interface ForeignFetchResponse { 
    var response: Response?
        get() = definedExternally
        set(value) = definedExternally
    var origin: String?
        get() = definedExternally
        set(value) = definedExternally
    var headers: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
}

ForeignFetchResponse { 
    val o = js("{}")
    o["response"] = response
    o["origin"] = origin
    o["headers"] = headers
    return
}

/**
 * Exposes the JavaScript
 */
public external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : ExtendableEvent { 
    open val data: Any?
    open val origin: String
    open val lastEventId: String
    open val source: UnionClientOrMessagePortOrServiceWorker?
    open val ports: Array<out MessagePort>?

    companion object { 
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface ExtendableMessageEventInit : ExtendableEventInit { 
        var data: Any?
            get() = definedExternally
            set(value) = definedExternally
        var origin: String?
            get() = definedExternally
            set(value) = definedExternally
        var lastEventId: String?
            get() = definedExternally
            set(value) = definedExternally
        var source: UnionClientOrMessagePortOrServiceWorker?
            get() = definedExternally
            set(value) = definedExternally
        var ports: Array<MessagePort>?
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("{}")
        o["data"] = data
        o["origin"] = origin
        o["lastEventId"] = lastEventId
        o["source"] = source
        o["ports"] = ports
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /**
 * Exposes the JavaScript
 */
public external abstract class Cache { 
    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>
    fun matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>
    fun add(request: dynamic): Promise<Unit>
    fun addAll(requests: Array<dynamic>): Promise<Unit>
    fun put(request: dynamic, response: Response): Promise<Unit>
    fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>
    fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<String>>
    fun deleteAll(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Unit>
    fun matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>
    fun add(request: dynamic): Promise<Unit>
    fun addAll(requests: Array<dynamic>): Promise<Unit>
    fun put(request: dynamic, response: Response): Promise<Unit>
    fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Unit>
    fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<String>>
    fun deleteAll(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Unit>
}
defindedExternally\n    set(value) = defindedExternally\n    var request: Request?\n        get() = defindedExternally\n        set(value) = defindedExternally\n    var response: Response?\n        get() = defindedExternally\n        set(value) = defindedExternally\n    var options: CacheQueryOptions?\n        get() = defindedExternally\n        set(value) = defindedExternally\n    var batch: CacheBatchOperation?\n        get() = defindedExternally\n        set(value) = defindedExternally\n
@kotlin.internal.InlineOnly

/**
 * Exposes the JavaScript
 * [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin
 */
public external abstract class CacheStorage {
    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>
    fun has(cacheName: String): Promise<Boolean>
    fun open(cacheName: String): Promise<Cache>
    fun delete(cacheName: String): Promise<Boolean>
    fun keys(): Promise<Array<String>>
}

public external open class FunctionalEvent : ExtendableEvent {
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface UnionMessagePortOrServiceWorker

public external interface UnionClientOrMessagePortOrServiceWorker

/* please, don’t implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ServiceWorkerState {
    fun match(request: Request, options: CacheQueryOptions = definedExternally): Promise<Any?>
    fun has(cacheName: String): Promise<Cache>
    fun open(cacheName: String): Promise<Cache>
    fun delete(cacheName: String): Promise<Boolean>
    fun keys(): Promise<Array<String>>
}

/**
 * Exposes the
 */
public class XKHR {
    private val xhr = new XMLHttpRequest()
    xhr.open("GET", "http://example.com/", true)
    xhr.onload = () => {
        if (xhr.status === 200) {
            console.log(xhr.responseText)
        } else {
            console.error(`Error: ${xhr.status}
`) // * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. * See github.com/kotlin/dukat for details
    xhr.onerror = () => {
        console.error('Error: Network error')
    }
    xhr.send()
}

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JavaScript

[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to Kotlin

```kotlin
public external abstract class XMLHttpRequestEventTarget : EventTarget {
    open var onloadstart: ((ProgressEvent) -> dynamic)?
    open var onprogress: ((ProgressEvent) -> dynamic)?
    open var onabort: ((Event) -> dynamic)?
    open var onerror: ((Event) -> dynamic)?
    open var onload: ((Event) -> dynamic)?
    open var ontimeout: ((Event) -> dynamic)?
    open var onloadend: ((Event) -> dynamic)?
}

public external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget

/**
 * Exposes the JavaScript XMLHttpRequest to Kotlin
 */
public external open class XMLHttpRequest : XMLHttpRequestEventTarget {
    var onreadystatechange: ((Event) -> dynamic)?
    open val readyState: Short
    var timeout: Int
    var withCredentials: Boolean
    open val upload: XMLHttpRequestUpload
    open val responseURL: String
    open val status: Short
    open val statusText: String
    var responseType: XMLHttpRequestResponseType
    open val response: Any
    open val responseText: String
    open val responseXML: Document?
    fun open(method: String, url: String) = definedExternally
    fun open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? = definedExternally) = definedExternally
    fun setRequestHeader(name: String, value: String) = definedExternally
    fun send(body: dynamic = definedExternally) = definedExternally
    fun abort() = definedExternally
    fun getResponseHeader(name: String): String = definedExternally
    fun getAllResponseHeaders(): Array<String> = definedExternally
    fun overrideMimeType(mime: String) = definedExternally

    companion object {
        val UNSENT: Short
        val OPENED: Short
        val HEADERS_RECEIVED: Short
        val LOADING: Short
        val DONE: Short
    }
}
```

[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin

```kotlin
public external open class FormData(form: HTMLFormElement = definedExternally) {
    fun append(name: String, value: String) = definedExternally
    fun append(name: String, value: Blob, filename: String = definedExternally) = definedExternally
    fun delete(name: String) = definedExternally
    fun get(name: String): dynamic = definedExternally
    fun getAll(name: String): Array<dynamic> = definedExternally
    fun has(name: String): Boolean = definedExternally
    fun set(name: String, value: String) = definedExternally
    fun set(name: String, value: Blob, filename: String = definedExternally) = definedExternally
}
```

[ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin

```kotlin
public external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {
    open val lengthComputable: Boolean
    open val loaded: Number
    open val total: Number

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ProgressEventInit : EventInit {
    var lengthComputable: Boolean? /* = false */
    var loaded: Number? /* = 0 */
    var total: Number? /* = 0 */
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["lengthComputable"] = lengthComputable
    o["loaded"] = loaded
    o["total"] = total
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
```

[XMLHttpRequestResponseType](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestResponseType) to Kotlin

```kotlin
public inline val XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() = "".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() = "arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() = "blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() = "document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()
```
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XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() = "json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() = "text".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

package kotlin

import kotlin.annotation.AnnotationRetention.BINARY
import kotlin.annotation.AnnotationRetention.SOURCE
import kotlin.annotation.AnnotationTarget.*

/**
 * Signals that the annotated annotation class is a marker of an experimental API.
 * * Any declaration annotated with that marker is considered an experimental declaration and its call sites should accept the experimental aspect of it either by using [UseExperimental], or by being annotated with that marker themselves, effectively causing further propagation of that experimental aspect.
 * * This class is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].
 */
@Target(ANNOTATION_CLASS)
@Retention(BINARY)
@SinceKotlin("1.2")
@RequiresOptIn("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
@Deprecated("Please use RequiresOptIn instead.", ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))
public annotation class Experimental(val level: Level = Level.ERROR) {
    /**
     * Severity of the diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental aspect of that API either by using [UseExperimental] or by being annotated with the corresponding marker.
     */
    public enum class Level {
        WARNING,
        ERROR,
    }
}

/**
 * Allows to use experimental API denoted by the given markers in the annotated file, declaration, or expression.
 * If a declaration is annotated with [UseExperimental], its usages are not required to opt-in to that experimental API.
 * * This class is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].
 */
@Target(CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE, TYPEALIAS)
@Retention(SOURCE)
@SinceKotlin("1.2")
@RequiresOptIn("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
@MustBeDocumented
@Experimental
@ExperimentalStdlibApi

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* @BuilderInference

```kotlin
fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T>
```
The default message is: \"This declaration is experimental and its usage should be marked with \"Marker\" 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 */
@Target(ANNOTATION_CLASS)
@Retention(RETENTION_CLASS)
@Retention(RETENTION_ELEMENT)
@Retention(RETENTION_TYPEALIAS)
public annotation class RequiresOptIn(
    val message: String = "",
    val level: Level = Level.ERROR
) {
    /**
     * Severity of the diagnostic that should be reported on usages which did not explicitly opted into
     * the API either by using [OptIn] or by being annotated with the corresponding marker annotation.
     * @property level specifies how usages of API without an explicit opt-in are reported in code.\n     */
    public enum class Level {
        /** Specifies that a warning should be reported on incorrect usages of this API.\n         * @property level specifies how usages of API without an explicit opt-in are reported in code.\n         */
        WARNING,

        /** Specifies that an error should be reported on incorrect usages of this API.\n         * @property level specifies how usages of API without an explicit opt-in are reported in code.\n         */
        ERROR,
    }
}

/**
 * Allows to use the API denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with [OptIn], its usages are **not** required to opt in to that API.\n * @property level specifies how usages of API without an explicit opt-in are reported in code.\n */
@Target(TARGET_CLASS, TARGET_PROPERTY, TARGET_LOCAL_VARIABLE, TARGET_VALUE_PARAMETER, TARGET_CONSTRUCTOR, TARGET_FUNCTION, TARGET_PROPERTY_GETTER, TARGET_PROPERTY_SETTER, TARGET_EXPRESSION, TARGET_FILE)
@Retention(RETENTION_CLASS)
@Retention(RETENTION_ELEMENT)
@Retention(RETENTION_TYPEALIAS)
public annotation class OptIn(
    vararg val markerClass: KClass<out Annotation>
)

package kotlin.collections

import kotlin.js.JsName

/**
 * Provides a skeletal implementation of the read-only [Collection] interface.
 * @param E the type of elements contained in the collection. The collection is covariant on its element type.
 */
@SinceKotlin("1.1")
public abstract class AbstractCollection<E> protected constructor() : Collection<E> {
    abstract override val size: Int
    abstract override fun iterator(): Iterator<E>

    override fun contains(element: E): Boolean = any { it == element }

    override fun containsAll(elements: Collection<E>): Boolean = elements.all { contains(it) }

    override fun isEmpty(): Boolean = size == 0

    override fun toString(): String = joinToString(", ", "[", "]") {
        if (it === this) "(this Collection)" else it.toString()
    }

    /**
     * Returns new array of type `Array<Any?>` with the elements of this collection.
     */
    @JsName("toArray")
    protected open fun toArray(): Array<Any?> = copyToArrayImpl(this)

    /**
     * Fills the provided [array] or creates new array of the same type and fills it with the elements of this collection.
     */
    protected open fun <T> toArray(array: Array<T>): Array<T> = copyToArrayImpl(this, array)
}

package kotlin.collections

private enum class State {
    Ready,
    NotReady,
    Done,
    Failed
}

/**
 * A base class to simplify implementing iterators so that implementations only have to implement [computeNext] to implement the iterator, calling [done] when the iteration is complete.\n * @property level specifies how usages of API without an explicit opt-in are reported in code.\n */
public abstract class AbstractIterator<T> : Iterator<T> {
    private var state = State.NotReady

    override fun hasNext(): Boolean {
        @Suppress("UNCHECKED_CAST")
        return when (state) {
            State.Done, State.Failed -> true
            State.Ready -> false
            else -> tryToComputeNext()
        }

    }

    override fun next(): T {
        if (!hasNext()) throw NoSuchElementException()
        state = State.Ready
        return when (state) {
            State.Done -> throw NoSuchElementException()
            State.Ready ->
                tryToComputeNext()
        }

    }

    /**
     * Computes the next item in the iteration.
     */
    protected fun computeNext(): Unit =Compute the next item in the iteration.

}
done so that the iteration terminates.

protected fun done() { println("
state = State.Done
"
)}

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 */

random access override val size: Int

abstract override fun get(index: Int): E

override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)

override fun iterator(): Iterator<E> = IteratorImpl()

override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)

override fun hasNext(): Boolean = index < size

override fun next(): E {
    if (!hasNext()) throw NoSuchElementException()
    return get(index++)
}

override fun lastIndexOf(element: E): Int = indexOfFirst { it == element }

override fun indexOf(element: E): Int {
    return get(index++)
}

override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)

override fun subList(out E)@UnsafeVariance E): Int = indexOfLast { it == element }

override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)
This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.

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Perhaps it was null and we don't contain the key?

perhaps that instance is a [Map] of the same size, all entries of which are contained in the [entries] set of this map.

All subsequent accesses just return the created instance.

AbstractCollection<V>() {
                }
            }
            return _keys!!
        }

    @kotlin.jvm.Volatile
    private var _keys: Set<K>? = null

    override fun toString(): String = entries.joinToString(", ", "{", "}") {
        toString(it) }

    private fun toString(entry: Map.Entry<K, V>): String = toString(entry.key) + "=" +

    private fun toString(o: Any?): String = if (o === this) "(this Map)" else o.toString()
*\n@since @param E the type of elements contained in the set. The set is covariant on its element type.

*\n@since Kotlin("1.1")@abstract class AbstractSet<out E> protected constructor():

AbstractCollection<E>(), Set<E> {\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
    *\n    contained in this set.\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     * Returns the hash code value for this set.\n     */
    override fun hashCode(): Int = unorderedHashCode(c):\n        Int {\n            var hashCode = 0\n            for (element in c) {\n                hashCode += (element?.hashCode() ?: 0)\n            }\n            return hashCode\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            }

            internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\n                if (c.size != other.size) return false\n                return c.containsAll(other)\n            }
        }

    }
private fun incremented(index: Int): Int = if (index == elementData.lastIndex) 0 else index + 1
private fun decremented(index: Int): Int = if (index == 0) elementData.lastIndex else index - 1
override fun isEmpty(): Boolean = size == 0
/**
 * Returns the first element, or throws [NoSuchElementException] if this deque is empty.
 * @return the first element
 */
public fun first(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(head)
/**
 * Returns the first element, or `null` if this deque is empty.
 * @return the first element or null
 */
public fun firstOrNull(): E? = if (isEmpty()) null else internalGet(head)
/**
 * Returns the last element, or throws [NoSuchElementException] if this deque is empty.
 * @return the last element
 */
public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(lastIndex)
/**
 * Returns the last element, or `null` if this deque is empty.
 * @return the last element or null
 */
public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(lastIndex)
/**
 * Prepends the specified [element] to this deque.
 * @param element the element to add
 * @return `true` if this deque was modified
 */
public fun addFirst(element: E) = 
  ensureCapacity(size + 1) 
  head = decremented(head)
  elementData[head] = element
  size += 1
  return true
/**
 * Appends the specified [element] to the end of this deque.
 * @param element the element to add
 * @return `true` if this deque was modified
 */
public fun addLast(element: E) = 
  ensureCapacity(size + 1) 
  elementData[size] = element
  size += 1
  return true
/**
 * Appends the specified [element] to this deque.
 * @param element the element to add
 * @return `true` if this deque was modified
 */
public fun add(element: E) = 
  if (isEmpty()) 
    addLast(element)
  else 
    addFirst(element)
  return true
/**
 * Removes the first element from this deque and returns that removed element, or
 * throws [NoSuchElementException] if this deque is empty.
 * @return the removed element
 */
public fun removeFirst(): E

public fun removeLast(): E

public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()

public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()

public fun addLast(element: E) = 
  ensureCapacity(size + 1) 
  head = incremented(head)
  elementData[head] = element
  size += 1

public fun addFirst(element: E) = 
  ensureCapacity(size + 1) 
  head = decremented(head)
  elementData[head] = element
  size += 1

public fun add(element: E) = 
  if (isEmpty()) 
    addLast(element)
  else 
    addFirst(element)
  return true
/**
 * Depending on where the given element must be inserted the preceding or the succeeding
 * elements will be shifted to make room for the element to be inserted.
 * @param index the index to insert
 * @param element the element to add
 * @return true if this deque was modified
 */
public fun add(index: Int, element: E) = 
  if (index == size) 
    addLast(element)
  else 
    addFirst(element)
  return true
/**
 * Removes the first element from this deque and returns that removed element, or
 * throws [NoSuchElementException] if this deque is empty.
 * @return the removed element
 */
public fun removeFirst(): E

public fun removeLast(): E

public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()

public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()

public fun addLast(element: E) = 
  ensureCapacity(size + 1) 
  head = incremented(head)
  elementData[head] = element
  size += 1

public fun addFirst(element: E) = 
  ensureCapacity(size + 1) 
  head = decremented(head)
  elementData[head] = element
  size += 1

public fun add(element: E) = 
  if (isEmpty()) 
    addLast(element)
  else 
    addFirst(element)
  return true
/**
 * Depending on where the given element must be inserted the preceding or the succeeding
 * elements will be shifted to make room for the element to be inserted.
 * @param index the index to insert
 * @param element the element to add
 * @return true if this deque was modified
 */
public fun add(index: Int, element: E) = 
  if (index == size) 
    addLast(element)
  else 
    addFirst(element)
  return true
elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)

if (decrementedInternalIndex < tail) {
    elementData.copyInto(elementData, 0, internalIndex)
}

head = decrementedHead

closer to the last element -> shift succeeding elements
val tail = internalIndex(size)

if (internalIndex < tail) {
    elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)
} else {
    // head > tail
    elementData.copyInto(elementData, 1, 0, tail)
}

val shiftToFront = tail + elementsSize - elementData.size

if (shiftToBack >= elementsSize) {
    elementData.copyInto(elementData, shiftedHead, head + shiftToBack)
} else {
    // head < tail
    elementData.copyInto(elementData, head + shiftToBack, internalIndex)
}

} else {

    val shiftToBack = elementData.size - shiftedHead
    val shiftedHead = head - elementsSize

    if (internalIndex >= head) {
        if (shiftedHead >= 0) {
            elementData.copyInto(elementData, shiftedHead, head, internalIndex)
        } else {
            // closer to the first element -> shift preceding elements
            val shiftedHead = head - elementsSize
            if (internalIndex >= head) {
                if (shiftedHead >= 0) {
                    elementData.copyInto(elementData, shiftedHead, head, internalIndex)
                } else {
                    // head < tail, insertion leads to head <= tail
                    shiftedHead += elementData.size
                }
            }
        }
    }

    else {
        // head < tail, insertion leads to head >= tail
        shiftedHead += elementData.size
        val elementsToShift = internalIndex - head
        val shiftedInternalIndex = internalIndex + elementsSize
        if (shiftedInternalIndex >= tail) {
            elementData.copyInto(elementData, shiftedInternalIndex - tail, elementsSize)
            if (elementsSize >= internalIndex) {
                elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)
            } else {
                elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)
            }
        } else {
            elementData.copyInto(elementData,elementData.size - elementsSize, 0,元素Size)
        }
    }

} else {
    // head < tail, therefore shift succeeding elements
    val decrementedInternalIndex = internalIndex - elementsSize
    elementData.copyInto(elementData, 0, decrementedInternalIndex)

    if (decrementedInternalIndex < tail) {
        elementData.copyInto(elementData, 1, 0, tail)
    } else {
        // closer to the last element -> shift succeeding elements
        val decrementedHead = head - elementsSize
        if (decrementedHead >= 0) {
            elementData.copyInto(elementData, decrementedHead, head + shiftToBack)
        } else {
            // closer to the first element -> shift preceding elements
            val decrementedHead = head - elementsSize
            if (decrementedHead >= 0) {
                elementData.copyInto(elementData, decrementedHead, head, internalIndex)
            } else {
                // head < tail, insertion leads to head <= tail
                decrementedHead += elementData.size
            }
        }
    }

} else {
    // head < tail, therefore shift succeeding elements
    val decrementedInternalIndex = internalIndex - elementsSize
    elementData.copyInto(elementData, 0, decrementedInternalIndex)

    if (decrementedInternalIndex < tail) {
        elementData.copyInto(elementData, 1, 0, tail)
    } else {
        // closer to the last element -> shift succeeding elements
        val decrementedHead = head - elementsSize
        if (decrementedHead >= 0) {
            elementData.copyInto(elementData, decrementedHead, head + shiftToBack)
        } else {
            // closer to the first element -> shift preceding elements
            val decrementedHead = head - elementsSize
            if (decrementedHead >= 0) {
                elementData.copyInto(elementData, decrementedHead, head, internalIndex)
            } else {
                // head < tail, insertion leads to head <= tail
                decrementedHead += elementData.size
            }
        }
    }

} else {
    // head < tail, therefore shift succeeding elements
    val decrementedInternalIndex = internalIndex - elementsSize
    elementData.copyInto(elementData, 0, decrementedInternalIndex)

    if (decrementedInternalIndex < tail) {
        elementData.copyInto(elementData, 1, 0, tail)
    } else {
        // closer to the last element -> shift succeeding elements
        val decrementedHead = head - elementsSize
        if (decrementedHead >= 0) {
            elementData.copyInto(elementData, decrementedHead, head + shiftToBack)
        } else {
            // closer to the first element -> shift preceding elements
            val decrementedHead = head - elementsSize
            if (decrementedHead >= 0) {
                elementData.copyInto(elementData, decrementedHead, head, internalIndex)
            } else {
                // head < tail, insertion leads to head <= tail
                decrementedHead += elementData.size
            }
        }
    }

}
public override fun contains(element: E): Boolean = indexOf(element) != -1

public override fun indexOf(element: E): Int {
    val tail = internalIndex(size)
    if (head < tail) {
        if (element == elementData[index]) return index - head
    } else if (head >= tail) {
        for (index in head until elementData.size) {
            if (element == elementData[index]) return index - head
        }
    }

    return -1
}

public override fun lastIndexOf(element: E): Int {
    val tail = internalIndex(size)
    if (head < tail) {
        for (index in tail - 1 downTo head) {
            if (element == elementData[index]) return index - head
        }
    }

    return -1
}

public override fun removeAt(index: Int): E {
    val internalIndex = index
    if (index == lastIndex) {
        return removeLast()
    }

    val internalIndex = internalIndex(index)

    if (index == lastIndex) {
        return removeLast()
    }

    for (index in head until size) {
        if (element == elementData[index]) return index - head
    }

    return -1
}

public override fun remove(element: E): Boolean {
    val index = indexOf(element)
    if (index == -1) return false

    removeAt(index) return true
}

public override fun removeFirst(): E {
    return removeAt(0)
}

public override fun removeLast(): E {
    return removeAt(lastIndex)
}

public override fun clear() {
    val tail = internalIndex(size)
    if (head < tail) {
        elementData.fill(null, head, tail)
    } else if (head > tail) {
        for (index in head until head + 1) {
            if (element == elementData[index]) return index - head
        }
    }

    return -1
}

public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace {
    !elements.contains(it) }

public override fun removeAll(elements: Collection<E>): Boolean = filterInPlace {
    !elements.contains(it) }

    public override fun checkElementIndex(index, size) {println
        if (index < size shr 1) {
            // closer to the first element -> shift preceding elements
            if (internalIndex >= head) {
                elementData.copyInto(elementData, head + 1, head, internalIndex)
            } else if (index == 0) {
                return removeFirst()
            } else if (index == size) {
                return removeLast()
            } else if (index < size shr 1) {
                // closer to the first element -> shift preceding elements
                val internalIndex = internalIndex(index)

                if (internalIndex <= internalLastIndex) {
                    elementData.copyInto(elementData, internalIndex, internalIndex + 1,
                        internalLastIndex + 1)
                } else { // head < tail, internalIndex < head
                    elementData.copyInto(elementData, internalIndex, internalIndex + 1, elementData.size)
                }

            } else if (head < tail) {
                for (index in head until tail) {
                    if (element == elementData[index]) return index - head
                }

                return -1
            }

            elementData.fill(null, newTail, tail)
        }

        return true
    }

    public override fun contains(element: E): Boolean = indexOf(element) != -1

    public override fun size() = elementData.size

    public override fun isEmpty() = elementData.isEmpty()

    public override fun forIndexIn(head, index, tail) {println
        return true
    }

    public override fun equals(other: Any?): Boolean {
        if (elementData == other) return true

        if (elementData.size != other.size) return false

        for (index in 0 until size) {
            if (elementData[index] != other.elementData[index]) return false
        }

        return true
    }

    public override fun hashCode() = elementData.hashCode()

    public override fun toString() = "{" + elementData.size + " elements" + [10] + "}"
emptyArray() \n return \n \n val elements = arrayOfNulls<Any?>(size) \n if (head < tail) { \n     elementData.copyInto(elements, startIndex = head, endIndex = tail) \n     structure(head, elements) \n } \n else { \n     elementData.copyInto(elements, startIndex = head) \n     val size = elementData.size - head, startindex = 0, endIndex = tail \n     structure(head - elementData.size, elements) \n } \n */
in indices) {
    if (i != 0) {
        result.append(", ")
    }
    val element = this[i]
    when (element) {
        null            -> result.append("null")
        is Array<*>     -> result.append(element.contentDeepToStringInternal(result, processed))
        is ByteArray    -> result.append(element.contentToString())
        is ShortArray   -> result.append(element.contentToString())
        is IntArray     -> result.append(element.contentToString())
        is LongArray    -> result.append(element.contentToString())
        is FloatArray   -> result.append(element.contentToString())
        is DoubleArray  -> result.append(element.contentToString())
        is CharArray    -> result.append(element.contentToString())
        is BooleanArray -> result.append(element.contentToString())
        is UByteArray   -> result.append(element.contentToString())
        is UShortArray  -> result.append(element.contentToString())
        is UIntArray    -> result.append(element.contentToString())
        is ULongArray   -> result.append(element.contentToString())
        else            -> result.append(element.toString())
    }
}

processed.removeAt(processed.lastIndex)

} /*
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 */

package kotlin.collections

/**
 * Data class representing a value from a collection or sequence, along with its index in that collection or sequence.
 * @property index the index of the value in the collection or sequence.
 * @property value the underlying value.
 */
public data class IndexedValue<out T>(public val index: Int, public val value: T)

/**
 * 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.
 */
@kotlin.jvm.JvmName("getVar")
@kotlin.internal.InlineOnly
public inline operator fun <V, V1 : V> Map<in String, V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =
    @Suppress("UNCHECKED_CAST") (getOrImplicitDefault(property.name, as V1) 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.
 */
@kotlin.jvm.JvmName("getVarContravariant")
@kotlin.internal.LowPriorityInOverloadResolution
@kotlin.internal.InlineOnly
public inline fun <V> MutableMap<in String, V>.getValue(thisRef: Any?, property: KProperty<*>): V =
    @Suppress("UNCHECKED_CAST") (getOrImplicitDefault(property.name) as V)

/**
 * 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 set the value.
 * @param value the value to set.
 */
@kotlin.internal.InlineOnly
public inline operator fun <V> MutableMap<in String, V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {
    this.put(property.name, value)
}

/*/
 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. 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.


private interface MapWithDefault<K, out V> : Map<K, V> {
    public val map: Map<K, V>
    public fun getOrImplicitDefault(key: K): V
}

private interface MutableMapWithDefault<K, V> :.MutableMap<K, V>, MapWithDefault<K, V> {
    public override val map: MutableMap<K, V>
}

private class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) : MapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun toString(): String = map.toString()
    override val size: Int get() = map.size
    override fun isEmpty(): Boolean = map.isEmpty()
    override fun containsKey(key: K): Boolean = map.containsKey(key)
    override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)
    override fun getOrDefault(key: K): V? = map.get(key)
    override fun getOrImplicitDefault(key: K): V = map.getOrImplicitDefault(key)
    override fun put(key: K, value: V): V? = map.put(key, value)
    override fun remove(key: K): V? = map.remove(key)
    override fun putAll(from: Map<out K, V>): V? = map.putAll(from)
    override fun clear(): V? = map.clear()
    override fun getOrImplicitDefault(key: K): V? = map.getOrImplicitDefault(key)
}

private class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {
    override fun equals(other: Any?): Boolean = map.equals(other)
    override fun hashCode(): Int = map.hashCode()
    override fun toString(): String = map.toString()
    override val size: Int get() = map.size
    override fun isEmpty(): Boolean = map.isEmpty()
    override fun containsKey(key: K): Boolean = map.containsKey(key)
    override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)
    override fun getOrDefault(key: K): V? = map.get(key)
    override fun put(key: K, value: V): V? = map.put(key, value)
    override fun remove(key: K): V? = map.remove(key)
    override fun putAll(from: Map<out K, V>): V? = map.putAll(from)
    override fun clear(): V? = map.clear()
    override fun getOrImplicitDefault(key: K): V? = map.getOrImplicitDefault(key)
}

//
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import kotlin.random.Random

Remove a single instance of the specified element from this collection, if it is present. Allows to overcome type-safety restriction of 'remove' that requires
to pass an element of type `E`. *
\* @return `true` if the element has been successfully removed; `false` if it was not present in the collection. *
\* Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.

* @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified. *
\* Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.

* @return `true` if any element was removed from the collection, `false` if the collection was not modified.

* Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.

\* Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.

\* Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.

\* Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.

\* Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.

\* Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.
MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean
\{ return elements.isNotEmpty() && removeAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Array<out T>): Boolean
\{ return retainAll(elements.convertToSetForSetOperationWith(this)) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>): Boolean
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Iterable<out T>): Boolean
\{ return retainAll(elements.convertToSetForSetOperationWith(this)) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
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MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
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MutableCollection<in T>.retainAll(elements: Sequence<out T>)
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MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

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\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

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MutableCollection<in T>.retainAll(elements: Sequence<out T>)
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MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

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MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

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\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}

MutableCollection<in T>.retainAll(elements: Array<out T>)
\{ if (elements.isNotEmpty()) return retainAll(elements.toHashSet()) \}

MutableCollection<in T>.retainAll(elements: Sequence<out T>)
\{ val set = elements.toHashSet() return retainAll(set) \}
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) ==\n        predicateResultToRemove)\n      continue\n    if (writeIndex < size) {\n      for (removeIndex in lastIndex downTo\n          writeIndex) {\n        removeAt(removeIndex)\n      }\n      return true\n    } else {\n      return false\n    }\n  }\n  return false

Randomly shuffles elements in this mutable list using the specified [random] instance as the source of randomness.\n
/**\n * Randomly shuffles elements in this mutable list using the specified [random] instance as the source of\n * randomness.\n */\n@SinceKotlin("1.3")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {
    for (i in lastIndex\n        downTo 1) {
        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy
    }
}

/**\n * Returns a reversed read-only view of the original List.\n * All changes made in the\n * original list will be reflected in the reversed one.\n */\npublic fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)

/**\n * Returns a reversed\n * mutable view of the original mutable List.\n * All changes made in the original list will be reflected in the reversed\n * one and vice versa.\n */\n@kotlin.jvm.JvmName("asReversedMutable")\npublic fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)
Open Source Used In CKC - Time Series Data Engine 1.2.2.4

@SinceKotlin("1.3")
@Deprecated("Use 'iterator { }' function instead.",
ReplaceWith("@BuilderInference noline builderAction: suspend SequenceScope<T>.() -> Unit: Iterator<T> = iterator(builderAction)\n\npublic abstract suspend fun yieldAll(elements: Iterable<T>) \n\n@RestrictsSuspension
@SinceKotlin("1.3")
public abstract class SequenceScope<in T> internal constructor() \n\n@RestrictsSuspension
@SinceKotlin("1.3")
public abstract suspend fun yieldAll(iterator: Iterator<T>) \n\n@Suppress("UNCHECKED_CAST")
val result = nextValue as T
\nelse {\n    \nnextIterator = null\n    \n    State_Done -> return false\n}
The minimum of `maxCapacity` and 1.5 * `capacity`. The returned ring buffer contains the same elements as
```
return toArray(arrayOfNulls(size))
```

```
/**
 * Creates a new ring buffer with the capacity equal to
 * this.size) result[result.size] = null

        return result as Array<T>
    }

    override fun toArray(): Array<Any?>
```

```
size = this.size

        var widx = 0
        var idx = startIndex

        while (widx < size && idx < capacity) {
```

```
@Suppress("UNCHECKED_CAST")
override fun <T> toArray(array: Array<T>): Array<T> {
    val
```
this ring.buffer.
 */
    fun expanded(maxCapacity: Int): RingBuffer<T> {
        val newCapacity = (capacity +
            (capacity shr 1) + 1).coerceAtMost(maxCapacity)
        val newBuffer = if (startIndex == 0)
            buffer.copyOf(newCapacity) else
toArray(arrayOfNulls(newCapacity))
        return RingBuffer(newBuffer, size)
    }

    /**
     * Add [element] to the buffer or fail with [IllegalStateException] if no free space available in the buffer
     */
    fun add(element: T) {
        if (isFull()) {
            throw IllegalStateException("ring buffer is full")
        }

        buffer[startIndex.forward(size)] = element
        size++
    }

    /**
     * Removes [n] first elements from the buffer or fails with [IllegalArgumentOutOfRangeException] if not enough elements in the buffer to remove
     */
    fun removeFirst(n: Int) {
        require(n >= 0) { "n shouldn't be negative but it is $n" }
        require(n <= size) { "n shouldn't be greater than the buffer size: n = $n, size = $size" }

        if (n > 0) {
            val start = start
            val end = start.forward(n)
            if (start > end) {
                buffer.fill(null, start, capacity)
                buffer.fill(null, 0, end)
            } else {
                buffer.fill(null, start, end)
            }
            startIndex = end
            size -= n
        }
    }

    @Suppress("NOTHING_TO_INLINE")
    private inline fun Int.forward(n: Int): Int = (this + n) % capacity
}

// UByteArray
=============================================================================
@ExperimentalUnsignedTypes
private fun partition(array: UByteArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(array: UByteArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// UShortArray
=============================================================================
@ExperimentalUnsignedTypes
private fun partition(array: UShortArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(array: UShortArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// UIntArray
=============================================================================
@ExperimentalUnsignedTypes
private fun partition(array: UIntArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(array: UIntArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// ULongArray
=============================================================================
@ExperimentalUnsignedTypes
private fun partition(array: ULongArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(array: ULongArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// Interfaces
=============================================================================
/**

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Sorts the given array using qsort algorithm.

```kotlin
@ExperimentalUnsignedTypes
internal fun sortArray(array: UByteArray)    = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: UShortArray)   = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: UIntArray)     = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
internal fun sortArray(array: ULongArray)    = quickSort(array, 0, array.size - 1)
```

/*
 * 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.
 */

package kotlin.contracts

import kotlin.internal.ContractsDsl
import kotlin.internal.InlineOnly

/**
 * This marker distinguishes the experimental contract declaration API and is used to opt-in for that feature * when declaring contracts of user functions. * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by
 * annotating that usage with the [OptIn] annotation, e.g. `.@OptIn(ExperimentalContracts::class)`, or by using the compiler argument `-Xopt-in=kotlin.contracts.ExperimentalContracts`
 */
@Suppress("DEPRECATION")
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.3")
@Experimental
@RequiresOptIn
@MustBeDocumented
public annotation class ExperimentalContracts

/**
 * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc., can be used to describe the contract of a function. This type is used as a receiver type of the lambda function passed to the [contract] function.
 */
@ContractsDsl
@ExperimentalContracts
@SinceKotlin("1.3")
public interface ContractBuilder {
    /**
     * Describes a situation when a function returns normally, without any exceptions thrown.
     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
     */
    @ContractsDsl public fun returns(): Returns

    /**
     * Describes a situation when a function returns normally with the specified return value.
     * The possible values of [value] are limited to `true`, `false` or `null`.
     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
     */
    @ContractsDsl public fun returns(value: Any?): Returns

    /**
     * Describes a situation when a function returns normally with any value that is not `null`.
     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
     */
    @ContractsDsl public fun returnsNotNull(): ReturnsNotNull

    /**
     * Specifies how many times a function invokes its function parameter in place.
     * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.
     */
    @ContractsDsl public fun returnsNotNull(): ReturnsNotNull

    /**
     * Specifies that the function parameter [lambda] is invoked in place.
     * This contract specifies that:
     * 1. the function [lambda] can only be invoked during the call of the owner function, and it won't be invoked after that owner function call is completed;
     * 2. (optionally) the function [lambda] is invoked the amount of times specified by the [kind] parameter;
     * see the [InvocationKind] enum for possible values.
     * A function declaring the `callsInPlace` effect must be `inline`.
     */
    @ContractsDsl public fun callsInPlace(lambda: Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace
}

/**
 * Specifies how many times a function invokes its function parameter.
 * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.
 */
@ContractsDsl
@ExperimentalContracts
@SinceKotlin("1.3")
public enum class InvocationKind {
    /**
     * A function parameter will be invoked one time or not invoked at all.
     */
    @ContractsDsl AT_MOST_ONCE,

    /**
     * A function parameter will be invoked one or more times.
     */
    @ContractsDsl AT_LEAST_ONCE,

    /**
     * A function parameter will be invoked exactly one time.
     */
    @ContractsDsl EXACTLY_ONCE,

    /**
     * A function parameter will be invoked more than once.
     */
    @ContractsDsl MORE_THAN_ONCE,
}

Open Source Used In CKC - Time Series Data Engine 1.2.2.4 6368
function parameter is called in place, but it's unknown how many times it can be called.

The contract description must be at the beginning of a function and have at least one effect. Only the top-level functions can have a contract for now.

The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and intercepts all coroutine continuations with [interceptContinuation] invocations. Marks coroutine context element that intercepts coroutine continuations.

The key that defines the context interceptor.

The original continuation, that wraps the original continuation, thus intercepting all resumptions. This function is invoked by coroutines framework when needed and the resulting continuations are cached internally per each instance of the original continuation.

This function may simply return original continuation if it does not want to intercept this particular continuation. When the original continuation completes, coroutine framework invokes [releaseInterceptedContinuation] with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously returned a different continuation instance. Invoked for the continuation instance returned by [interceptContinuation] when the original continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation] had returned a different continuation instance from the one it was invoked with. Default implementation does nothing.

When the original continuation completes, coroutine framework invokes [releaseInterceptedContinuation] with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously returned a different continuation instance. Invoked for the continuation instance returned by [interceptContinuation] when the original continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation] had returned a different continuation instance from the one it was invoked with. Default implementation does nothing.
Persistent context for the coroutine. It is an indexed set of [Element] instances. An indexed set is a mix between a set and a map. Every element in this set has a unique [Key]. public interface CoroutineContext { Returns the element with the given [key] from this context or `null`. public operator fun <E : Element> get(key: Key<E>): E?/*nung * Accumulates entries of this context starting with [initial] value and applying [operation] * from left to right to current accumulator value and each element of this context. * public fun <R> fold(initial: R, operation: (R, Element) -> R): R/*nung * Returns a context containing elements from this context and elements from other [context]. * The elements from this context with the same key as in the other one are dropped. * public operator fun plus(context: CoroutineContext): CoroutineContext { if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation context.fold(this) { acc, element -> val removed = acc.minusKey(element.key) if (removed === EmptyCoroutineContext) element else { // make sure interceptor is always last in the context (and thus is fast to get when present) val interceptor = removed[ContinuationInterceptor] if (interceptor == null) CombinedContext(removed, element) else { val left = removed.minusKey(ContinuationInterceptor) if (left === EmptyCoroutineContext) CombinedContext(element, interceptor) else

CombinedContext(CombinedContext(left, element), interceptor) return

* Returns a context containing elements from this context, but without an element with * the specified [key].

public fun minusKey(key: Key<*>): CoroutineContext * A key of this coroutine context element.

public val key: Key<*> public override operator fun <E : CoroutineContext.Element> get(key: Key<E>): E? /*nung @ Suppress("UNCHECKED_CAST") if (this.key == key) this as E else null

public override fun <R> fold(initial: R, operation: (R, Element) -> R): R *ung public override operator fun <E : Element> get(key: Key<E>): E? /*nung if (this.key == key) EmptyCoroutineContext else this

* A key of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.

* public interface Element : CoroutineContext.Element public override val key: Key<*>

* Examples of polymorphic elements:

```kotlin
open class BaseElement : CoroutineContext.Element {
    companion object Key : CoroutineContext.Key<BaseElement>
    override val key: CoroutineContext.Key<*> get() = Key
    override fun minusKey(key: CoroutineContext.Key<*>) = this
    override fun minusKey(key: CoroutineContext.Key<*>) = this +
}

class DerivedElement : BaseElement() {
    companion object Key : AbstractCoroutineContextKey<BaseElement, DerivedElement>(BaseElement, { it as?

    DerivedElement? })
    override fun minusKey(key: CoroutineContext.Key<*>) = this +
}
```

of [E] or `null` otherwise.

```java
/*
 * Returns the current element is it is associated with the given [key] in a polymorphic manner or `null` otherwise.
 * This method returns non-null value if either [Element.key] is equal to the given [key] or if the [key] is associated with [element] via [AbstractCoroutineContextKey]. See [AbstractCoroutineContextKey] for the example of usage.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun <E : Element> Element.getPolymorphicElement(key: Key<E>): E? {
    if (key is AbstractCoroutineContextKey<*>) {
        val result = key.tryCast(this)
        return if (result != null) result else null
    } else {
        return if (this.key === key) this as E else null
    }
}
```

```java
/**
 * Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner or `null` otherwise.
 * This method returns empty context if either [Element.key] is equal to the given [key] or if the [key] is associated with [element] via [AbstractCoroutineContextKey]. See [AbstractCoroutineContextKey] for the example of usage.
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun Element.minusPolymorphicKey(key: Key<*>) : CoroutineContext {
    return if (key is AbstractCoroutineContextKey<*>) {
        if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this
    } else {
        when {
            this.key === key -> EmptyCoroutineContext
            else -> this
        }
    }
}
```

```java
/**
 * An empty coroutine context.
 */
@SinceKotlin("1.3")
public object EmptyCoroutineContext : CoroutineContext, Serializable {
    private const val serialVersionUID: Long = 0
    private fun readResolve(): Any = EmptyCoroutineContext

    public override fun <E : Element> get(key: Key<E>): E? = null
    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial
    public override fun plus(context: CoroutineContext): CoroutineContext = context
    public override fun minusKey(key: Key<*>): CoroutineContext = when {
        context is CombinedContext -> context.minusKey(key)
        else -> CombinedContext(EmptyCoroutineContext, context)
    }

    public override fun hashCode(): Int = 0
    public override fun toString(): String = "EmptyCoroutineContext"

    private fun writeReplace(): Any {
        val n = size
        val elements = Array(n) { null }
        fold(Unit) { _, element -> elements += element }
        return serialized(elements)
    }
}
```

```java
// this class is not exposed, but is hidden inside implementations
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public abstract class AbstractCoroutineContextKey<B : Element, E : B>(
    baseKey: Key<B>,
    private val safeCast: (element: Element) -> E?
) : Key<E> {
    private val topmostKey: Key<*>

    internal fun tryCast(element: Element): E? = safeCast(element)
    internal fun isSubKey(key: Key<*>): Boolean = key === this || topmostKey === key

    @Suppress("UNCHECKED_CAST")
    fun return if (key is AbstractCoroutineContextKey<*>) {
        return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null
    } @Suppress("UNCHECKED_CAST")
    return if (this.key === key) this as E else null
}
```

```java
/**
 * An empty coroutine context.
 */
@SinceKotlin("1.3")
public class CombinedContext(
    private val left: CoroutineContext,
    private val element: Element
) : CoroutineContext, Serializable {

    override fun <E : Element> get(key: Key<E>): E? {
        var cur = this
        while (true) {
            cur.element[key]?.let { return it }
            val next = cur.left
            if (next is CombinedContext) {
                cur = next
            } else {
                return next[key]
            }
        }
    }

    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = operation(left.fold(initial), element)

    public override fun minusKey(key: Key<*>): CoroutineContext {
        element[key]?.let { return left }
        val newLeft = left.minusKey(key)
        return when {
            newLeft === left -> this
            newLeft === EmptyCoroutineContext -> element
            else -> CombinedContext(newLeft, element)
        }
    }

    public override fun hashCode(): Int = left.hashCode() + element.hashCode()

    public override fun equals(other: Any?): Boolean = this === other || other is CombinedContext && other.size + 1 == size + 1 && containsAll(element, operation)

    public override fun contains(element: Element): Boolean = contains(element) || combinedContext.contains(element)

    public override fun containsAll(context: CombinedContext): Boolean = containsAll(context, operation)

    public override fun equals(other: Any?): Boolean = combinedContext.equals(other)
}
```
as Array<CoroutineContext>()
private class Serialized(val elements: Array<CoroutineContext>):
    Serializable
    companion object {
        private const val serialVersionUID: Long = 0L
        * Obtain the current continuation instance inside suspend functions and either suspends or returns result immediately without suspension.
        *
        * The [block] shall return a [T] type result.
        * If the [block] returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution and will not return any result immediately.
        * Otherwise, the return value of the [block] must have a type assignable to [T] and represents the result of this suspend function.
        *
        * It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.
        *
        * As the result type of the [block] is declared as `Any` and cannot be correctly type-checked, its proper return type remains on the conscience of the suspend function's author.
        *
        * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].
        *
        * It is the invoker's responsibility to ensure that a proper invocation context is established.
        *
        * Note that it is not recommended to call either [Continuation.resume] or [Continuation.resumeWithException] functions synchronously in the same stackframe where suspend function is run. Use [suspendCoroutine] as a safer way to obtain current continuation instance.
        *
        * As return value of [suspendCoroutineUninterceptedOrReturn] is intrinsic.
        *
        * This use value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that the execution was suspended and will not return any result immediately.
        *
        * Using it outside of the context of suspend function return value (including, but not limited to storing this value in other properties, returning it from other functions, etc.) can lead to unspecified behavior of the code.
        *
        * It is implemented as property with getter to avoid ProGuard <clinit> problem with multifile IntrinsicsKt class.
        *
        * COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED
        *
        * public val COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED
        *
        * Perform a bitwise AND operation between the two values.
        *
        * Perform a bitwise OR operation between the two values.
        *
        * Inverts the bits in this value.
(this.toInt().inv()).toByte()/*\n\n** Performs a bitwise AND operation between the two values.
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline infix fun Short.and(other: Short): Short =
(this.toInt() and other.toInt()).toShort()/*\n\n** Performs a bitwise OR operation between the two values.
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline infix fun Short.or(other: Short): Short =
(this.toInt() or other.toInt()).toShort()/*\n\n** Performs a bitwise XOR operation between the two values.
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline infix fun Short.xor(other: Short): Short =
(this.toInt() xor other.toInt()).toShort()/*\n\n** Inverts the bits in this value.
*/
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline infix fun Short.inv(): Short =
(this.toInt().inv()).toShort()/* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language

 contributors. */

package kotlin.experimental

/**
 * The experimental marker for type
 * inference augmenting annotations.
 *
 * Any usage of a declaration annotated with
 * `@ExperimentalTypeInference` must be accepted either by
 * annotation that using with the [OptIn] annotation,
 * e.g. `@OptIn(ExperimentalTypeInference::class)`, or by using the compiler argument `-Xopt-
 * in=ktol.experimental.ExperimentalTypeInference`, or by using the compiler argument `-Xopt-
 * in=ktol.experimental.ExperimentalTypeInference`
 */
@Suppress("DEPRECATION")
@Experimental(level = Experimental.Level.ERROR)
@RequiresOptIn(level = RequiresOptIn.Level.ERROR)
@MustBeDocumented
@Retention(AnnotationRetention.BINARY)
@Target(A
notationTarget.ANNOTATION_CLASS)
@SinceKotlin("1.3")
public annotation class ExperimentalTypeInference

package kotlin.internal

/**
 * Specifies that the corresponding type should be
 * ignored during type inference.
 */
@Target(AnnotationTarget.TYPE)
@Retention(AnnotationRetention.BINARY)
internal annotation class NoInfer

/**
 * Specifies that the constraint built for the type during type inference should be an equality one
 */
@Target(AnnotationTarget.TYPE)
@Retention(AnnotationRetention.BINARY)
internal annotation class Exact

/**
 * Specifies that a corresponding member has the lowest priority in overload resolution.
 */
@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)
@Retention(AnnotationRetention.BINARY)
internal annotation class LowPriorityInOverloadResolution

/**
 * The value of this type parameter should be mentioned in input types (argument types,
 * receiver type or expected type).
 */
@Target(AnnotationTarget.VALUE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.2")
internal annotation class AccessibleLateinitPropertyLiteral

/**
 * Specifies that this declaration can have dynamic receiver type.
 */
@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY_SETTER)
@Retention(AnnotationRetention.BINARY)
@InlineOnly
@Runtime
@SinceKotlin("1.2")
//

@ExperimentalTypeInference
package kotlin.experimental

/*
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 * contributors.
 */

package kotlin

/**
 * The experimental marker for type
 * inference augmenting annotations.
 *
 * Any usage of a declaration annotated with
 * `@ExperimentalTypeInference` must be accepted either by
 * annotation that using with the [OptIn] annotation,
 * e.g. `@OptIn(ExperimentalTypeInference::class)`, or by using the compiler argument `-Xopt-
 * in=ktol.experimental.ExperimentalTypeInference`, or by using the compiler argument `-Xopt-
 * in=ktol.experimental.ExperimentalTypeInference`
 */
@Suppress("DEPRECATION")
@Experimental(level = Experimental.Level.ERROR)
@RequiresOptIn(level = RequiresOptIn.Level.ERROR)
@MustBeDocumented
@Retention(AnnotationRetention.BINARY)
@Target(AnotationTarget.ANNOTATION_CLASS)
@SinceKotlin("1.3")
public annotation class ExperimentalTypeInference

package kotlin.internal

/**
 * Specifies that the corresponding type should be
 * ignored during type inference.
 */
@Target(AnnotationTarget.TYPE)
@Retention(AnnotationRetention.BINARY)
internal annotation class NoInfer

/**
 * Specifies that the constraint built for the type during type inference should be an equality one
 */
@Target(AnnotationTarget.TYPE)
@Retention(AnnotationRetention.BINARY)
internal annotation class Exact

/**
 * Specifies that a corresponding member has the lowest priority in overload resolution.
 */
@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)
@Retention(AnnotationRetention.BINARY)
internal annotation class LowPriorityInOverloadResolution

/**
 * The value of this type parameter should be mentioned in input types (argument types,
 * receiver type or expected type).
 */
@Target(AnnotationTarget.VALUE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.2")
internal annotation class AccessibleLateinitPropertyLiteral

/**
 * The Kotlin compiler of an earlier version is going to
report a diagnostic on usages of this declaration.

* The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear * to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error in * is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.

* [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.

* Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going to treat any [RequireKotlin] as if it requires the language version.

Since 1.2, the Kotlin compiler supports

* [RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].

* If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),

* Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement in * on the language version.

* This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.

*/

@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR, AnnotationTarget.TYPEALIAS)
@Retention(AnnotationRetention.SOURCE)
@Repeatable
@SinceKotlin("1.2")
internal annotation class RequireKotlin(
    val version: String,
    val message: String = "",
    val level: DeprecationLevel = DeprecationLevel.ERROR,
    val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE_VERSION,
    val errorCode: Int = -1
)

/**
 * The kind of the version that is required by [RequireKotlin].
 */
@SinceKotlin("1.2")
internal enum class RequireKotlinVersionKind {
    LANGUAGE_VERSION,
    COMPILER_VERSION,
    API_VERSION,
}

/**
 * Specifies that this declaration is a part of special DSL, used for constructing
 * function's contract.
 */
@SinceKotlin("1.2")
internal annotation class ContractsDsl

*/

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.
     *
     * @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 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,
     *  * If the callback returns `false` the new value is discarded and the property remains its old value.
     * * @param onWrite 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.
     * * @param onChange the callback which is called after the change of the property.
     * * @param onWrite the callback which is called after the change of the property.
     */
    public inline fun <T> observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit): ReadWriteProperty<Any?, T> = ObservableProperty(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.
     * @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.
     * * @param onChange the callback which is called after the change of the property.
     * * @param onWrite the callback which is called after the change of the property.
     */
    public inline fun <T> vetoable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean): ReadWriteProperty<Any?, T> = VetoableProperty(initialValue) {
        override fun beforeChange(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.
     * @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 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,
     *  * If the callback returns `false` the new value is discarded and the property remains its old value.
     * * @param onChange the callback which is called after the change of the property is made.
     * * @param onWrite the callback which is called after the change of the property.
     */
    public inline fun <T> throwVetoable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean): ReadWriteProperty<Any?, T> = VetoableProperty(initialValue) {
        override fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)
    }

}
random number generator.

GENERATES a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).

public abstract fun nextInt(): Int =

GENERATES an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).

fun nextBits(bitCount: Int): Int

GENERATES an `Int` whose lower `bitCount` bits are filled with random values and the remaining upper bits are zero.

An abstract class that is implemented by random number generator algorithms.

@SinceKotlin("1.3")
public abstract class Random {

GENERATES an `Int` whose lower `bitCount` bits are filled with random values and the remaining upper bits are zero.

The companion object `Random.Default` is the default instance of `Random`.

To get a seeded instance of random generator use `RandomFactory().` *param initialValue the initial value of the property.

/**
 * The callback which is called before the 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.

protected open fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = true

protected open fun afterChange(property: KProperty<*>, oldValue: T, newValue: T): Unit {}

public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {

private var value = initialValue

public abstract class ObservableProperty<T>(initialValue: T) : WriteableProperty<Any?, T>

public abstract class ReadWriteProperty<Any?, T> {

override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {

override fun getValue(thisRef: Any?, property: KProperty<*>): T {


private class NotNullVar<T : Any>() : ReadWriteProperty<T, T> {

private var private class NotNullVar<T : Any>() : ReadWriteProperty<T, T> {

private var
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 public open fun nextLong(until: Long): Long = nextLong(0, until)\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 between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n *\n public open fun nextLong(from: Long, until: Long): Long {
    checkRangeBounds(from, until)\n    val n = until - from\n    if (n > 0) {
        val val rd: Long = nextLong(0, n)\n        if (n and -n == n) {
            var nLow = n.toInt()\n            var nHigh = (n USHR 32).toInt()\n            var rnd = when {
                nLow == 0 -> {
                    val bitCount = fastLog2(nLow)\n                    0xFFFF_FFFF
                } else -> {
                    val bitCount = fastLog2(nHigh)\n                    nHigh - 1 - >\n                    nextBits(bitCount).toLong() and 0xFFFF_FFFF
                }
            }
            return if (n rd = nextLong(0, n)\n                if (rd in from until until) return rnd\n            }\n            return from + rnd\n        } else {
            while (true) {
                val bits = nextLong().USHR(1)\n                v = bits % n\n            }\n            return from + rnd\n        }\n    }\n    else {
        while (true) {
            val bits = nextBits(bitCount).toLong()\n            if (bits USHR 1) return bits\n        }\n        return from + nextDouble() * size\n        return if (r >= until) until.nextDown() else r\n    }\n}
private val defaultRandom: Random = defaultPlatformRandom()

override fun nextBits(bitCount: Int): Int = defaultRandom.nextBits(bitCount)
override fun nextInt(): Int = defaultRandom.nextInt()
override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)
override fun nextLong(): Long = defaultRandom.nextLong()
override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)
override fun nextDouble(): Double = defaultRandom.nextDouble()
override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)
override fun nextBoolean(): Boolean = defaultRandom.nextBoolean()
override fun nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)

override fun nextFloat(): Float = defaultRandom.nextFloat()

override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)
override fun nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)
override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int): ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)

@Deprecated("Use Default companion object instead", level = DeprecationLevel.HIDDEN)
@Suppress("DEPRECATION_ERROR")
@kotlin.jvm.JvmField

@kotlin.jvm.JvmField
public object Companion : Random()

/**
 * Returns a repeatable random number generator seeded with the given [seed] `Int` value.
 * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.
 */
public fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))

/**
 * Returns a repeatable random number generator seeded with the given [seed] `Long` value.
 * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.
 */
public fun Random(seed: Long): Random = XorWowRandom(seed.toInt(), seed.shr(32).toInt())

/**
 * Gets the next random `Int` from the random number generator in the specified [range].
 * Generates an `Int` random value uniformly distributed in the specified [range]:
 * from `range.start` inclusive to `range.endInclusive` inclusive.
 * @throws IllegalArgumentException if [range] is empty.
 */
public fun Random.nextInt(range: IntRange): Int = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)
    range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1
    else -> nextInt()
}

/**
 * Gets the next random `Long` from the random number generator in the specified [range].
 * Generates an `Long` random value uniformly distributed in the specified [range]:
 * from `range.start` inclusive to `range.endInclusive` inclusive.
 * @throws IllegalArgumentException if [range] is empty.
 */
public fun Random.nextLong(range: LongRange): Long = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < Long.MAX_VALUE -> nextLong(range.first, range.last + 1)
    range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) + 1
    else -> nextLong()
}

internal expect fun defaultPlatformRandom(): Random
internal expect fun doubleFromParts(hi26: Int, low27: Int): Double

@UseExperimental(ExperimentalStdlibApi::class)
internal fun fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()

/** Takes upper [bitCount] bits (0..32) from this number. */
internal fun Int.takeUpperBits(bitCount: Int): Int =
    this.ushr(32 - bitCount) and (-bitCount).shr(31)

internal fun checkRangeBounds(from: Int, until: Int) = require(until > from) {
    boundsErrorMessage(from, until)
}

internal fun checkRangeBounds(from: Long, until: Long) = require(until > from) {
    boundsErrorMessage(from, until)
}

internal fun checkRangeBounds(from: Double, until: Double) = require(until > from) {
    boundsErrorMessage(from, until)
}

internal fun boundsErrorMessage(from: Any, until: Any) { /* Implementation */ }
Any) = "Random range is empty: \[$from, $until)."
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 * found in the license/LICENSE.txt file.
 */

package kotlin.random

/**
 * Gets the next random [UInt] from the random number generator in the specified
 * range.
 * Generates a [UInt] random value uniformly distributed between the specified [from]
 * (inclusive) and [until] (exclusive) bounds.
 * @throws IllegalArgumentException if [from] is greater than or equal to [until].
 * @throws IllegalArgumentException if [range] is empty.
 * @throws IllegalArgumentException if [range] is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUInt(range: UIntRange): UInt
{
    checkUIntRangeBounds(range.first, range.last)

    val signedFrom = range.first.toLong() xor Long.MIN_VALUE
    val signedUntil = range.last.toLong() xor Long.MIN_VALUE

    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE
    return signedResult.toUInt() % range.endInclusive *
}

/**
 * Gets the next random [ULong] from the random number generator in the specified
 * range.
 * Generates a [ULong] random value uniformly distributed in the specified [range]:
 * from `range.start` inclusive to `range.endInclusive` inclusive.
 * @throws IllegalArgumentException if [range] is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextULong(range: ULongRange): ULong
{
    checkULongRangeBounds(range.first, range.last)

    val signedFrom = range.first.toLong() xor Long.MIN_VALUE
    val signedUntil = range.last.toLong() xor Long.MIN_VALUE

    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE
    return signedResult.toULong() % range.endInclusive *
}

/**
 * Fills the specified unsigned byte [array] with random bytes and returns it.
 * @return [array] filled with random bytes.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUBytes(array: UByteArray): UByteArray
{
    nextBytes(array.asByteArray())
    return array
}

/**
 * Creates an unsigned
byte array of the specified [size], filled with random bytes.

```kotlin
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()
```

```kotlin
/**
 * Fills a subrange of the specified `UByte` [array] starting from
 [fromIndex] inclusive and ending to [toIndex] exclusive with random UBytes.\n * @return [array] with the subrange filled with random bytes.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Random.nextUBytes(array: UByteArray, fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {
    nextBytes(array.asByteArray(), fromIndex, toIndex)
    return array
}
```

```kotlin
@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) }
```

```kotlin
@file:kotlin.jvm.JvmMultifileClass\n@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.
 */
public operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)

```
override val start: Double get() = _start
override val endInclusive: Double get() = _endInclusive
override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b
override fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive
override fun isEmpty(): Boolean = !_start <= _endInclusive
override fun equals(other: Any?): Boolean {
        return other is ClosedDoubleRange && (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 [Double] value to the specified [that] value.
 * Numbers are compared with the ends of this range according to IEEE-754.
 * @sample samples.ranges.rangesRangeFromDouble
 */
@SinceKotlin("1.3")
public operator fun Double.rangeTo(that: Double): ClosedDoubleRange

/**
 * Creates a range from this [Float] value to the specified [that] value.
 * Numbers are compared with the ends of this range according to IEEE-754.
 * @sample samples.ranges.rangesRangeFromFloat
 */
@SinceKotlin("1.3")
public operator fun Float.rangeTo(that: Float): ClosedFloatRange

/**
 * Returns `true` if this iterable range contains the specified [element].
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
    element != null && contains(element)

internal fun checkStepIsPositive(isPositive: Boolean, step: Number) {
    if (!isPositive)
        throw IllegalArgumentException("Step must be positive, was: $step.")
}

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 */

package kotlin.reflect

/**
 * Casts the given [value] to the class represented by this [KClass] object.
 * Throws an exception if the value is `null` or if it is not an instance of this class.
 * This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.
 * @see [KClass.isInstance]
 * @see [KClass.safeCast]
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <reified T> typeOf(): KType =
    throw UnsupportedOperationException("This function is implemented as an
intrinsic on all supported platforms."

ICY Software Used In CKC - Time Series Data Engine 1.2.2.4

* @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.
     *
     * @param value the character to append.
     */
    fun append(value: Char): Appendable

    /**
     * Appends the specified character sequence [value] to this Appendable and returns this instance.
     *
     * @param value the character sequence to append.
     */
    fun append(value: CharSequence?): Appendable

    /**
     * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.
     *
     * @param value the character sequence from which a subsequence is appended.
     * @param startIndex the beginning (inclusive) of the subsequence to append.
     * @param endIndex the end (exclusive) of the subsequence to append.
     */
    fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable
}

/**
 * Appends all arguments to the given [Appendable].
 */
public fun <T : Appendable> T.append(vararg value: CharSequence?): T {
    for (item in value)
        append(item)
    return this
}


internal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence)?) {
    when {
        transform != null -> append(transform(element))
        element is CharSequence? -> append(element)
        element is Char -> append(element)
        else ->
            append(element.toString())
    }
}

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 */

@file:kotlin.jvm.JvmMultifileClass @file:kotlin.jvm.JvmName("CharsKt")

package kotlin.text

/**
 * Concatenates this Char and a String.
 */
@kotlin.internal.InlineOnly
public inline operator fun Char.plus(other: String): String = this.toString() + other

/**
 * Returns `true` if this character is a Unicode surrogate code unit.
 */
public fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE

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 */

@file:kotlin.jvm.JvmMultifileClass @file:kotlin.jvm.JvmName("CharsKt")

package kotlin.text

/**
 * Concatenates this Char and a String.
 */
@kotlin.internal.InlineOnly
public inline operator fun Char.plus(other: String): String = this.toString() + other

/*
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 */

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package kotlin.text

/**
 * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes the first and the last blank lines if they are blank (notice difference blank vs empty).
 * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.
 * Doesn't preserve the original line endings.
 * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is "|
 * (pipe character).
 * @sample samples.text.Strings.trimMargin
 */
public fun String.trimMargin(marginPrefix: String = "|": String = 
    replaceIndentByMargin("\", marginPrefix))

/**
 * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent] if
 * it doesn't exist or keeps the existing indent if it exists.
 * Doesn't preserve the original line endings.
 * @param newIndent non-blank string, which is used as a margin delimiter. Default is "|
 * (pipe character).
 * @sample samples.text.Strings.trimIndent
 */
public fun String.replaceIndentByMargin(newIndent: String = "", marginPrefix: String = "|")

/**
 * Detects a common minimal indent of all the input lines, removes it from every line and also
 * removes the first and the last blank lines if they are blank (notice difference blank vs empty).
 * Doesn't affect a line if it contains [marginPrefix] except the first and the last blank strings.
 * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is "|
 * (pipe character).
 * @sample samples.text.Strings.trimIndent
 */
public fun String.trimIndent(): String = replaceIndent("")

/**
 * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified
 * [newIndent].
 * @param newIndent non-blank string, which is used as a margin delimiter. Default is "|
 * (pipe character).
 * @sample samples.text.Strings.trimIndent
 */
public fun String.replaceIndent(newIndent: String = ""): String

/**
 * Prepends [indent] to every line of the original string.
 * Doesn't preserve the original line endings.
 * @param indent non-blank string, which is used as a margin delimiter. Default is "    
 * (tab character).
 * @sample samples.text.Strings.prependIndent
 */
public fun String.prependIndent(indent: String = "    "): String

private fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }

private fun getIndentFunction(indent: String) = when {
    indent.isEmpty() -> { line: String -> line }
    else -> { line: String -> indent + line }
}

private inline fun List<String>.reindent(
    resultSizeEstimate: Int,
    indentAddFunction: (String) -> String,
    indentCutFunction: (String) -> String?
): String {
    val lastIndex = lastIndex
    return mapIndexedNotNull { index, value ->
        if ((index == 0 || index == lastIndex) && value.isBlank())
            null
        else
            indentCutFunction(value) ?: indentAddFunction(value) ?: value
    }
        .joinTo(StringBuilder(resultSizeEstimate), "\n")
        .toString()
val copyright: Char = '\u00A9'
    /** The character « */
    public const val leftGuillemete: Char = '\u00AB'
    /** The character » */
    public const val rightGuillemete: Char = '\u00BB'
    /** The character ® */
    public const val registered: Char = '\u00AE'
    /** The character ° */
    public const val degree: Char = '\u00B0'
    /** The character ± */
    public const val plusMinus: Char = '\u00B1'
    /** The character ¶ */
    public const val paragraph: Char = '\u00B6'
    /** The character · */
    public const val middleDot: Char = '\u00B7'
    /** The character ½ */
    public const val half: Char = '\u00BD'
    /** The character – */
    public const val ndash: Char = '\u2013'
    /** The character — */
    public const val mdash: Char = '\u2014'
    /** The character ‘ */
    public const val leftSingleQuote: Char = '\u2018'
    /** The character ’ */
    public const val rightSingleQuote: Char = '\u2019'
    /** The character ‘ */
    public const val lowSingleQuote: Char = '\u201A'
    /** The character “ */
    public const val leftDoubleQuote: Char = '\u201C'
    /** The character ” */
    public const val rightDoubleQuote: Char = '\u201D'
    /** The character “ */
    public const val lowDoubleQuote: Char = '\u201E'
    /** The character † */
    public const val dagger: Char = '\u2020'
    /** The character ‡ */
    public const val doubleDagger: Char = '\u2021'
    /** The character • */
    public const val bullet: Char = '\u2022'
    /** The character … */
    public const val ellipsis: Char = '\u2026'
    /** The character ′ */
    public const val prime: Char = '\u2032'
    /** The character ″ */
    public const val doublePrime: Char = '\u2033'
    /** The character € */
    public const val euro: Char = '\u20AC'
    /** The character ™ */
    public const val tm: Char = '\u2122'
    /** The character ≈ */
    public const val almostEqual: Char = '\u2248'
    /** The character ≠ */
    public const val notEqual: Char = '\u2260'
    /** The character ≤ */
    public const val lessOrEqual: Char = '\u2264'
    /** The character ≥ */
    public const val greaterOrEqual: Char = '\u2265'
}
[groupValues] is an empty string.
    /*
    * @sample samples.text.Regexps.matchDestructuringToGroupValues
    */
    public val groupValues: List<String>

    /**
     * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of
     * group values.
     *
     * component1 corresponds to the value of the first group, component22014 of the second, and so on.
     *
     * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public val destructured: Destructured get() = Destructured(this)

    /** Returns a new [MatchResult] with the results for the next match, starting at the position
     * at which the last match ended (at the character after the last matched character).
     *
     * If the group in the regular expression is optional and there were no match captured by that group,
     * corresponding component value is an empty string.
     *
     * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public fun next(): MatchResult?

    /**
     * Provides components for destructuring assignment of group values.
     *
     * component1 corresponds to the value of the first group, [component2]2014 of the second, and so on.
     *
     * If the group in the regular expression is optional and there were no match captured by that group,
     * corresponding component value is an empty string.
     *
     * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public class Destructured internal
        constructor(public val match: MatchResult) {
            @kotlin.internal.InlineOnly
            public operator inline fun
                component1(): String = match.groupValues[1]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component2(): String = match.groupValues[2]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component3(): String = match.groupValues[3]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component4(): String = match.groupValues[4]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component5(): String = match.groupValues[5]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component6(): String = match.groupValues[6]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component7(): String = match.groupValues[7]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component8(): String = match.groupValues[8]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component9(): String = match.groupValues[9]
            @kotlin.internal.InlineOnly
            public operator inline fun
                component10(): String = match.groupValues[10]

            /**
             * Returns destructured group values as a list of strings.
             *
             * @sample samples.text.Regexps.matchDestructuringToGroupValues
             */
            public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)
        }
    }

    /**
     * Represents the amount of time one instant of time is away from another instant.
     *
     * A negative duration is possible in a situation when the second instant is earlier than the first one!
     * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.
     *
     * To construct a duration use either the extension function [toDuration],
     * or the extension properties [hours], [minutes], [seconds],
     * and so on, available on [Int], [Long], and [Double] numeric types.
     *
     * To get the value of this duration
     * expressed in a particular duration units ([DurationUnit]) use the functions [toInt], [toLong], and [toDouble]
     * or the properties [inHours], [inMinutes], [inSeconds], [inNanoseconds], and so on.
     *
     * @SinceKotlin("1.3")
     * @Experimental(ExperimentalTime::class)
     * @Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
     * @public inline class Duration internal constructor(internal val value: Double) :
     * Comparable<Duration> {
     *     companion object {
     *         /**
     *          * The duration equal to exactly 0 seconds.
     *          */
     *         public val ZERO: Duration = Duration(0.0)
     *     }
     *     // arithmetic operators
     *     // arithmetic operators
     *     /** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit].
     *      * public fun convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double
     *      * } // arithmetic operators
     *     /** Returns the negative of this value.
     *      * public operator fun unaryMinus():
     *      * Returns a duration whose value is the sum of this and [other] duration values.
     *      * ** Returns a duration
     */
duration whose value is the difference between this and [other] duration values. */
public operator fun

minus(other: Duration): Duration = Duration(value - other.value)
/** Returns a duration whose value is this duration value multiplied by the given [scale] number. */
public operator fun times(scale: Int): Duration = Duration(value * scale)
/** Returns a duration whose value is this duration value multiplied by the given [scale] number. */
public operator fun times(scale: Double): Duration = Duration(value * scale)
/** Returns a duration whose value is this duration value divided by the given [scale] number. */
public operator fun div(scale: Int): Duration = Duration(value / scale)
/** Returns a duration whose value is this duration value divided by the given [scale] number. */
public operator fun div(scale: Double): Duration = Duration(value / scale)
/** Returns a number that is the ratio of this and [other] duration values. */
public operator fun

div(other: Duration): Double = this.value / other.value
/** Returns true, if the duration value is less than zero. */
public fun isNegative(): Boolean = value < 0
/** Returns true, if the duration value is greater than zero. */
public fun isPositive(): Boolean = value > 0
/** Returns true, if the duration value is infinite. */
public fun isInfinite(): Boolean = value.isInfinite()
/** Returns the absolute value of this value. The returned value is always non-negative. */
public val absoluteValue: Duration get() = if (isNegative()) -this else this

override
fun compareTo(other: Duration): Int = this.value.compareTo(other.value)

// splitting to components

/**
 * Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action]
 * with these components.
 * The result of [action] is returned as the result of this function.
 * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
 * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;
 * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;
 * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;
 * - `days` represents the whole number of days in this duration.
 * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],
 * it is coerced into that range.
 * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
 * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;
 * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;
 * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;
 * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],
 * it is coerced into that range.
 * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
 * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;
 * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;
 * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;
 * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],
 * it is coerced into that range.
 * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
 * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;
 * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;
 * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;
 * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],
 * it is coerced into that range.
 * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
 * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;
 * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;
 * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;
 * If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],
 * it is coerced into that range.

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/**
 * Returns the value of this duration expressed as a [Double] number of the specified [unit].
 */
    public fun toDouble(unit: DurationUnit): Double = convertDurationUnit(value, storageUnit, unit)

    /**
     * Returns the value of this duration expressed as a [Long] number of the specified [unit].
     */
    public fun toLong(unit: DurationUnit): Long = toDouble(unit).toLong()

    /**
     * Returns the value of this duration expressed as an [Int] number of the specified [unit].
     */
    public fun toInt(unit: DurationUnit): Int = toDouble(unit).toInt()

    /** The value of this duration expressed as a [Double] number of days. */
    public val inDays: Double get() = toDouble(DurationUnit.DAYS)

    /** The value of this duration expressed as a [Double] number of hours. */
    public val inHours: Double get() = toDouble(DurationUnit.HOURS)

    /** The value of this duration expressed as a [Double] number of minutes. */
    public val inMinutes: Double get() = toDouble(DurationUnit.MINUTES)

    /** The value of this duration expressed as a [Double] number of seconds. */
    public val inSeconds: Double get() = toDouble(DurationUnit.SECONDS)

    /** The value of this duration expressed as a [Double] number of milliseconds. */
    public val inMilliseconds: Double get() = toDouble(DurationUnit.MILLISECONDS)

    /** The value of this duration expressed as a [Double] number of microseconds. */
    public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)

    /** The value of this duration expressed as a [Double] number of nanoseconds. */
    public val inNanoseconds: Double get() = toDouble(DurationUnit.NANOSECONDS)

    // shortcuts

    /**
     * Returns the value of this duration expressed as a [Long] number of nanoseconds.
     */
    public fun toLongNanoseconds(): Long = toLong(DurationUnit.NANOSECONDS)

    /**
     * Returns the value of this duration expressed as a [Long] number of milliseconds.
     */
    public fun toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)

    /**
     * Returns a string representation of this duration value expressed in the unit which yields the most compact and readable number value.
     */
    override fun toString(): String = when {
        isInfinite() -> value.toString()
        value == 0.0 -> "0s"
        else -> {
            val absNs = absoluteValue.inNanoseconds
            var scientific = false
            var maxDecimals = 0
            val unit = when {
                absNs < 1e-6 -> DurationUnit.SECONDS
                absNs < 1 -> DurationUnit.MICROSECONDS
                absNs < 1e3 -> DurationUnit.MILLISECONDS
                absNs < 1e6 -> DurationUnit.SECONDS
                else -> DurationUnit.DAYS
            }
            val value = toDouble(unit)
            when {
                scientific -> formatScientific(value)
                maxDecimals > 0 -> formatUpToDecimals(value, maxDecimals)
                else -> formatNumber(value, unit, maxDecimals)
            }
        }
    }

    /**
     * Returns the value of this duration expressed as a [Long] number of days. This value is coerced to the range of [Long] type, see the conversion [Double.toLong] for details.
     */
    public fun toLong(unit: DurationUnit): Long = toLong(unit)

    /**
     * Returns the value of this duration expressed as a [Long] number of hours. This value is coerced to the range of [Long] type, see the conversion [Double.toLong] for details.
     */
    public fun toLong(unit: DurationUnit): Long = toLong(unit)

    /**
     * Returns the value of this duration expressed as a [Long] number of minutes. This value is coerced to the range of [Long] type, see the conversion [Double.toLong] for details.
     */
    public fun toLong(unit: DurationUnit): Long = toLong(unit)

    /**
     * Returns the value of this duration expressed as a [Long] number of seconds. This value is coerced to the range of [Long] type, see the conversion [Double.toLong] for details.
     */
    public fun toLong(unit: DurationUnit): Long = toLong(unit)

    /**
     * Returns the value of this duration expressed as a [Long] number of milliseconds. This value is coerced to the range of [Long] type, see the conversion [Double.toLong] for details.
     */
    public fun toLong(unit: DurationUnit): Long = toLong(unit)

    /**
     * Returns the value of this duration expressed as a [Long] number of microseconds. This value is coerced to the range of [Long] type, see the conversion [Double.toLong] for details.
     */
    public fun toLong(unit: DurationUnit): Long = toLong(unit)

    /**
     * Returns the value of this duration expressed as a [Long] number of nanoseconds. This value is coerced to the range of [Long] type, see the conversion [Double.toLong] for details.
     */
    public fun toLong(unit: DurationUnit): Long = toLong(unit)

    // shortcuts

    /**
     * Returns the value of this duration expressed as a [Long] number of nanoseconds.
     */
    public fun toLongNanoseconds(): Long = toLongNanoseconds()

    /**
     * Returns the value of this duration expressed as a [Long] number of milliseconds.
     */
    public fun toLongMilliseconds(): Long = toLongMilliseconds()

    /**
     * Returns the value of this duration expressed as a [Long] number of microseconds.
     */
    public fun toLongMicroseconds(): Long = toLongMicroseconds()

    /**
     * Returns the value of this duration expressed as a [Long] number of nanoseconds.
     */
    public fun toLongNanoseconds(): Long = toLongNanoseconds()
maxDecimals) else -> formatToExactDecimals(value, precision(abs(value)))
} +
unit.shortName() | val if value < 10 -> 2
value < 100 -> 1
else -> 0
*/
/**
 * Returns a string representation of this duration value expressed in the given [unit] and formatted with the specified [decimals] number of digits after decimal point.
 * @param decimals The number of digits after the decimal point to use.
 * @return The string representation of this duration value.
 */
private fun formatToExactDecimals(value: Double, decimals: Int) = when {
    decimals >= 0 -> formatExactDecimals(value, decimals)
    else -> formatToExactDecimals(value, precision(abs(value)))
} + unit.shortName()

/**
 * Returns an ISO-8601 based string representation of this duration.
 * The returned value is presented in the format `PThHmMs.fS`, where `h`, `m`, `s` are the integer components of this duration (see `toComponents`) 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`. If the hours component absolute value of this duration is greater than [Int.MAX_VALUE], it is replaced with [Int.MAX_VALUE].
 * Negative durations are indicated with the sign `-` in the beginning of the returned string, for example, `-PT5M30S`.
 * @sample samples.time.Durations.toIsoString
 */
@UseExperimental(ExperimentalStdlibApi::class)
public fun toIsoString(): String = buildString {
    if (isNegative()) append('-')
    append("PT")
    absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->
        val hasHours = hours != 0
        val hasSeconds = seconds != 0 || nanoseconds != 0
        val hasMinutes = minutes != 0 || (hasSeconds && hasHours)
        if (hasHours) {
            append(hours).append('H')
        }
        if (hasMinutes) {
            append(minutes).append('M')
        }
        if (hasSeconds || (!hasHours && !hasMinutes)) {
            append(seconds)
            if (nanoseconds != 0) {
                appendRange(nanoseconds, 0, 3)
            }
        }
    }
}
toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of milliseconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)

/** Returns a [Duration] equal to this [Long] number of milliseconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)

/** Returns a [Duration] equal to this [Double] number of milliseconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)

/** Returns a [Duration] equal to this [Int] number of seconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.seconds get() =
toDuration(DurationUnit.SECONDS)

/** Returns a [Duration] equal to this [Long] number of seconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.seconds get() =
toDuration(DurationUnit.SECONDS)

/** Returns a [Duration] equal to this [Double] number of seconds. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.seconds get() =
toDuration(DurationUnit.SECONDS)

/** Returns a [Duration] equal to this [Int] number of minutes. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.minutes get() =
toDuration(DurationUnit.MINUTES)

/** Returns a [Duration] equal to this [Long] number of minutes. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.minutes get() =
toDuration(DurationUnit.MINUTES)

/** Returns a [Duration] equal to this [Double] number of minutes. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.minutes get() =
toDuration(DurationUnit.MINUTES)

/** Returns a [Duration] equal to this [Int] number of hours. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.hours get() =
toDuration(DurationUnit.HOURS)

/** Returns a [Duration] equal to this [Long] number of hours. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.hours get() =
toDuration(DurationUnit.HOURS)

/** Returns a [Duration] equal to this [Double] number of hours. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Double.hours get() =
toDuration(DurationUnit.HOURS)

/** Returns a [Duration] equal to this [Int] number of days. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Int.days get() =
toDuration(DurationUnit.DAYS)

/** Returns a [Duration] equal to this [Long] number of days. */
@SinceKotlin("1.3")
@ExperimentalTime
public val Long.days get() =
toDuration(DurationUnit.DAYS)

/** Returns a duration whose value is the specified [duration] value multiplied by this number. */
@SinceKotlin("1.3")
@ExperimentalTime
public inline operator fun Int.times(duration: Duration): Duration = duration * this

/** Returns a duration whose value is the specified [duration] value multiplied by this number. */
@SinceKotlin("1.3")
@ExperimentalTime
public inline operator fun Double.times(duration: Duration): Duration = duration * this

internal expect fun formatToExactDecimals(value: Double, decimals: Int): String
internal expect fun formatUpToDecimals(value: Double, decimals: Int): String
internal expect fun formatScientific(value: Double): String
representing one minute.

*\n
MINUTES,*\n
* Time unit representing one hour.

*\n
HOURS,*\n
* Time unit representing one day, which is always equal to 24 hours.

*\n
DAYS;\n
/*

**

* Time unit representing one hour.

/**

* Time unit representing one day, which is always equal to 24 hours.

*/

HOURS,

/**

* Time unit representing one hour.

*/

DAYS;
}

/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified
[targetUnit]. */\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
@internal expect fun convertDurationUnit(value: \n
Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): \n
Double\n
@SinceKotlin("1.3")\n
@ExperimentalTime\n
@internal fun DurationUnit.shortName(): String = when \n
(this) {

DurationUnit.NANOSECONDS -> "\n
DurationUnit.MICROSECONDS -> "\n
DurationUnit.MILLISECONDS -> "\n
DurationUnit.SECONDS -> "\n
DurationUnit.MINUTES -> "\n
DurationUnit.HOURS -> "\n
DurationUnit.DAYS -> "\n
}.

/*

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*/

package kotlin.time

import

kotlin.annotation.AnnotationTarget.*

/**

* This annotation marks the experimental preview of the standard

library API for measuring time and working with durations.

*/

@SinceKotlin("1.3")

@ExperimentalTime

internal annotation class ExperimentalTime

/*

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contributors.

*/

package kotlin.time

/**

* Represents a time point notched on a particular [TimeSource].

* Remains bound to the time source it was taken from

* and allows querying for the duration of time elapsed from

* that point (see the function [elapsedNow]). It returns a [TimeMark], which can be used to

* query the elapsed time later.

* @see [markNow]

* @see [measureTime]

* @see [measureTimedValue]

*/

@SinceKotlin("1.3")

@ExperimentalTime

public abstract class

TimeMark {

/**

* Returns the amount of time passed from this mark measured with the time source from

* which this mark was taken.

* the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.

* public fun markNow(): TimeMark

* The most precise time source available in the platform.

* This time source returns its readings from a source of monotonic time when it is available in a target platform,

* and resorts to a non-monotonic time source otherwise.

* public object Monotonic : TimeSource by

MonotonicTimeSource {

override fun toString(): String = MonotonicTimeSource.toString()

public companion object {


}

/**

* Returns true if this time mark has passed according to the time source from which this mark was taken.

*/

public fun elapsedNow(): Duration

/**

* Returns a time mark on the same time source that is behind this time mark by the specified [duration].

*/

public operator fun minus(duration: Duration): TimeMark = plus(-duration)

/**

* Returns a time mark on the same time source that is ahead of this time mark by the specified [duration].

*/

public operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)

/**

* Returns the amount of time passed from this mark measured with the time source from

* which this mark was taken.

* Note that the value returned by this function can change on subsequent

* invocations.

* public abstract fun elapsedNow(): Duration

*/

public fun markNow(): TimeMark

/**

* Marks a point in time on this time source.

* The returned [TimeMark] instance encapsulates the captured time point and

* allows querying

* the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.

*/

public fun markNow(): TimeMark

/**

* Returns true if this time mark has passed according to the time source from which this mark was taken.

*/

public fun elapsedNow(): Duration

/**

* Returns a time mark on the same time source that is behind this time mark by the specified [duration].

*/

public operator fun minus(duration: Duration): TimeMark

/**

* Returns a time mark on the same time source that is ahead of this time mark by the specified [duration].

*/

public operator fun plus(duration: Duration): TimeMark

/**

* Returns true if this time mark has passed according to the time source from which this mark was taken.

*/


* Note that the value returned by this function can change on subsequent invocations.

* If the time source is non-monotonic, it can change only from 'false' to 'true', namely, when the time mark becomes behind the current point of the time source.

 */
    public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()

    /**
     * Returns false if this time mark has not passed according to the time source from which this mark was taken.
     * Note that the value returned by this function can change on subsequent invocations.
     * If the time source is non-monotonic, it can change only from 'true' to 'false', namely, when the time mark becomes behind the current point of the time source.
     */
    public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()

@ExperimentalTime
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Deprecated("Subtracting one TimeMark from another is not a well defined operation because these time marks could have been obtained from the different time sources.", level = DeprecationLevel.ERROR)
public inline operator fun TimeMark.minus(other: TimeMark): Duration = throw Error("Operation is disallowed.")

@ExperimentalTime
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Deprecated("Comparing one TimeMark to another is not a well defined operation because these time marks could have been obtained from the different time sources.", level = DeprecationLevel.ERROR)
public inline operator fun TimeMark.compareTo(other: TimeMark): Int = throw Error("Operation is disallowed.")

@ExperimentalTime
private class AdjustedTimeMark(val mark: TimeMark, val adjustment: Duration) : TimeMark() {
    override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment

    override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)
}

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use TimeSource interface instead.", ReplaceWith("TimeSource", "kotlin.time.TimeSource"))
public typealias Clock = TimeSource

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use TimeMark class instead.", ReplaceWith("TimeMark", "kotlin.time.TimeMark"))
public typealias ClockMark = TimeMark

@SinceKotlin("1.3")
@ExperimentalTime
internal expect object MonotonicTimeSource : TimeSource

/**
 * An abstract class used to implement time sources that return their readings as [Long] values in the specified [unit] property unit. The unit in which this time source's readings are expressed.
 * An abstract class used to implement time marks that return their readings as [Long] values in the specified [unit] property unit. The unit in which this time source's readings are expressed.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public abstract class AbstractLongTimeSource(protected val unit: DurationUnit) : TimeSource {
    /**
     * This protected method should be overridden to return the current reading of the time source expressed as a [Long] number.
     * An abstract class used to implement time sources that return their readings as [Double] values in the specified [unit] property unit. The unit in which this time source's readings are expressed.
     */
    protected abstract fun read(): Long

    private class LongTimeMark(private val startedAt: Long, private val timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {
        override fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset
        override fun plus(duration: Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)
    }

    override fun markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)
}

/**
 * A time source that has programmatically updatable readings. It is useful as a predictable source of time in tests.
 * The current reading value can be advanced by the specified duration amount with the operator [plusAssign]:
 */
val timeSource = TestTimeSource()
    timeSource += 10.seconds

@SinceKotlin("1.3")
@ExperimentalTime
public abstract class AbstractDoubleTimeSource(protected val unit: DurationUnit) : TimeSource {
    /**
     * This protected method should be overridden to return the current reading of the time source expressed as a [Double] number.
     * An abstract class used to implement time sources that return their readings as [Double] values in the specified [unit] property unit. The unit in which this time source's readings are expressed.
     */
    protected abstract fun read(): Double

    private class DoubleTimeMark(private val startedAt: Double, private val timeSource: AbstractDoubleTimeSource, private val offset: Duration) : TimeMark() {
        override fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset
        override fun plus(duration: Duration): TimeMark = DoubleTimeMark(startedAt, timeSource, offset + duration)
    }

    override fun markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)
}
reading value is stored as a [Long] number of nanoseconds. * Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown. * An override func

* / ** * Advances the current reading value of this time source by the specified [duration]. 

* * * [duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds. 

* For example, if the duration being added is '0.6.nanoseconds', the reading doesn’t advance because the duration is rounded to zero nanoseconds. 

* * * @throws 

IllegalStateException when the reading value overflows as the result of this operation. 

* * * public operator fun plusAssign(duration: Duration) {

    val delta = duration.toDouble(unit)
    val longDelta = delta.toLong()

    reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {
        // when delta fits in long
        val newReading = reading + longDelta
        if (reading xor longDelta >= 0 && reading xor newReading < 0) overflow(duration)
                newReading
        } else {
            // when delta is greater than long, add it as double
            val newReading = reading + delta
            if (newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)
                    newReading.toLong()
    }
}

private fun overflow(duration: Duration) {
    throw IllegalStateException("TestTimeSource will overflow if its reading ${reading}ns is advanced by $duration.")
}

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use TimeSource.Monotonic instead.",
ReplaceWith("TimeSource.Monotonic", "/\"kotlin.time.TimeSource\"/"))
public typealias MonoClock =

TimeSource.Monotonic

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use AbstractLongTimeSource instead.", ReplaceWith("AbstractLongTimeSource", "/\"kotlin.time.AbstractLongTimeSource\"/"))
public typealias AbstractLongClock =

AbstractLongTimeSource

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use AbstractDoubleTimeSource instead.", ReplaceWith("AbstractDoubleTimeSource", "/\"kotlin.time.AbstractDoubleTimeSource\"/"))
public typealias AbstractDoubleClock =

AbstractDoubleTimeSource

@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use TestTimeSource instead.", ReplaceWith("TestTimeSource", "/\"kotlin.time.TestTimeSource\"/"))
public typealias TestClock =

TestTimeSource

@SinceKotlin("1.3")
@ExperimentalTime
public inline fun measureTime(block: () -> Unit): Duration {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return TimeSource.Monotonic.measureTime(block)
}

@SinceKotlin("1.3")
@ExperimentalTime
public inline fun TimeSource.measureTime(block: () -> Unit): Duration {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }

    val mark = markNow()
    block()
    return mark.elapsedNow()
}

@SinceKotlin("1.3")
@ExperimentalTime
public inline fun measureTimedValue(block: () -> T): TimedValue<T> {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }

    val mark = markNow()
    block()
    return mark.elapsedNow()
}

@SinceKotlin("1.3")
@ExperimentalTime
public inline fun measureTimedValue(block: () -> Unit): TimedValue<Unit> {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }

    return TimeSource.Monotonic.measureTimedValue(block)
}

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*
interval.

* \n
* The elapsed time is measured with the specified `this` [TimeSource] instance.

* \n
* @since Kotlin("1.3")\n
* @experimental

* TimeSource.measureTimedValue(\n
* block: (\n
* T): (\n
* T): (\n
* \n
* \n
* \n
* val mark = markNow(\n
* val result = block(\n
* return TimedValue(result, mark.elapsedNow())\n
*/

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* \n
* package kotlin

* \n
* import kotlin.internal.InlineOnly\n
* \n
* @receiver:AccessibleLateinitPropertyLiteral

* KProperty0\n
* isInitialized: Boolean

* get(): throw NotImplementedError("Implementation is intrinsic")\n
* @receiver:AccessibleLateinitPropertyLiteral

* KProperty0\n
* isInitialized: Boolean

* get(): throw NotImplementedError("Implementation is intrinsic")\n
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* \n
* @file:kotlin.jvm.JvmName("LateinitKt")

* \n
* @receiver:AccessibleLateinitPropertyLiteral

* KProperty0\n
* isInitialized: Boolean

* get(): throw NotImplementedError("Implementation is intrinsic")\n
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* \n
* @file:kotlin.jvm.JvmName("LazyKt")

* \n
* @receiver:AccessibleLateinitPropertyLiteral

* KProperty0\n
* isInitialized: Boolean

* get(): throw NotImplementedError("Implementation is intrinsic")\n
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* \n
* @file:kotlin.jvm.JvmName("LazyKt")

* @receiver:AccessibleLateinitPropertyLiteral

* KProperty0\n
* isInitialized: Boolean

* get(): throw NotImplementedError("Implementation is intrinsic")\n
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* \n
* @file:kotlin.jvm.JvmName("LazyKt")

* @receiver:AccessibleLateinitPropertyLiteral

* KProperty0\n
* isInitialized: Boolean

* get(): throw NotImplementedError("Implementation is intrinsic")\n
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* \n
* @file:kotlin.jvm.JvmName("LazyKt")

* @receiver:AccessibleLateinitPropertyLiteral

* KProperty0\n
* isInitialized: Boolean

* get(): throw NotImplementedError("Implementation is intrinsic")\n
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[Lazy] use the [lazy] function.\n */
public interface Lazy<out T> {
    /**
     * Gets the lazily initialized value of the current Lazy instance.\n     * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.\n     * When the value was not initialized this function will return `false`.\n     * Once this function has returned `false` it stays `false` for the rest of lifetime of this Lazy instance.\n     */
    val public fun isInitialized(): Boolean\n
    /**
     * Returns `true` if a value for this Lazy instance has been already initialized, and `false` otherwise.\n     * Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.\n     */
    fun isValueInitialized(): Boolean
}

/**
 * Creates a new instance of the [Lazy] that is already initialized with the specified [value].\n */
public fun <T> lazyOf(value: T): Lazy<T> =

/**
 * An extension to delegate a read-only property of type [T] to an instance of [Lazy].\n */
@kotlin.internal.InlineOnly
public inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<*>): T =

/**
 * Specifies how a [Lazy] instance synchronizes initialization among multiple threads.\n */
public enum class LazyThreadSafetyMode {
    SYNCHRONIZED, PUBLICATION, NONE,
}

internal object Uninitialized\n
// internal to be called from lazy in JS\ninternal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {
    private var initializer: (() -> T)? = initializer
    private var _value: Any? = UNINITIALIZED_VALUE

    override val value: T
        get() {
            if (_value === UNINITIALIZED_VALUE) {
                _value = initializer!!()
                initializer = null
            }
            return _value as T
        }

    override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE

    override fun toString(): String = if (isInitialized())
    value.toString() else "Lazy value not initialized yet."

    private fun writeReplace(): Any =
}

internal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {
    override fun isInitialized(): Boolean = true
    override fun toString(): String = value.toString()
}

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least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.

*`number.rotateRight(-n) == number.rotateLeft(n)`* Rotating by a negative bit count is the same as rotating it left by the negated bit count.

*The same number, or more generally*

*`number.rotateRight(n) == number.rotateRight(n % 32)`*

*Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.*

*`number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*

*Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.*

*`number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*

*Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count.*

* `number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*

*Returns a number having a single bit set in the position of the most significant set bit of this [Long] number.*

*`number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*

* Counts the number of set bits in the binary representation of this [Long] number.

* `number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*

*Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count.*

* `number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*

*Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count.*

* `number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*

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*Counts the number of set bits in the binary representation of this [Long] number.*

* `number.rotateRight(-n) == number.rotateLeft(n)`*

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*Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.*

* `number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*

*Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.*

* `number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*

*Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.*

* `number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*

*Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.*

* `number.rotateRight(-n) == number.rotateLeft(n)`*

* `number.rotateRight(n) == number.rotateRight(n % 32)`*
more generally

```kotlin
@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()

@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()
```

*/
@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()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Byte.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Byte.countLeadingZeroBits(): Int =
    (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFFFF).takeHighestOneBit().toByte()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun Short.rotateLeft(bitCount: Int): Short =
    (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun Short.rotateRight(bitCount: Int): Short =
    (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()
```

*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Short.countLeadingZeroBits(): Int =
    (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun Short.rotateLeft(bitCount: Int): Short =
    (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun Short.rotateRight(bitCount: Int): Short =
    (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()
```

*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Short.countLeadingZeroBits(): Int =
    (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZEBITS - Short.SIZE_BITS)

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@kotlin.internal.InlineOnly
public inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()
license that can be found in the license/LICENSE.txt file.

At line 1, the code starts with a comment that includes a license notice and a package declaration. The file `TuplesKt` is imported, and the `Pair` and `Triple` classes are defined. The `Pair` class is parameterized by two types `A` and `B`, and it includes a constructor that takes two values of types `A` and `B`. The `Pair` class also includes a `toString` method that returns a string representation of the pair.

The `Triple` class is parameterized by three types `A`, `B`, and `C`, and it includes a constructor that takes three values of types `A`, `B`, and `C`. The `Triple` class also includes a `toString` method that returns a string representation of the triple.

The `UIntRange` class is defined in the `kotlin.ranges` package and includes methods to check if a range is empty, to determine if a value is within the range, and to convert a range to a string.

The `UIntProgression` class is also defined in the `kotlin.ranges` package and includes methods to check if a progression is empty, to determine the first and last elements, and to convert a progression to a string.

The code includes comments that describe the purpose of each class and method, and it provides examples of how to use these classes and methods.

The document also includes a section that explains the use of an open source license and a section that discusses the importance of using noise reduction techniques in data processing.

The code is written in Kotlin and includes comments that help explain the purpose and functionality of each class and method. The code is well-organized and easy to read, with clear comments that provide context and explanation for each section.

Overall, the document provides a useful resource for developers who are interested in using open source libraries and tools for time series data processing.
progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the
specified [step].

In order to go backwards the [step] must be negative. * [step] must be
greater than `Int.MIN_VALUE` and not equal to zero.

```kotlin
public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)
```

In order to go backwards the [step] must be negative.

- [step] must be greater than `Int.MIN_VALUE` and not equal to zero.

```kotlin
public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)
```

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 */

// Auto-generated file. DO NOT EDIT!

package kotlin.collections

/*
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 * found in the license/LICENSE.txt file.
 */

// Auto-generated file. DO NOT EDIT!

package kotlin.ranges

```kotlin
import kotlin.internal.*

/**
 * A range of values of type `ULong`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public class ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {
    override val start: ULong get() = first
    override val endInclusive: ULong get() = last

    override fun contains(value: ULong): Boolean = first <= value && value <= last

    override fun isEmpty(): Boolean =
        if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() +
    override fun toString(): String = "$first..$last"

    companion object {
        /** An empty range of values of type ULong. */
        public val EMPTY: ULongRange =
    }
}

/**
 * A progression of values of type `ULong`.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public open class
```
isEmpty(): Boolean = if (step > 0) first > last else first < last

override fun hashCode(): Int = if (isEmpty()) -1 else (31 * (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())

override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step $(-step)"

companion object {
    /**
     * Creates ULongProgression within the specified bounds of a closed range.
     * The progression starts with the rangeStart value and goes toward the rangeEnd value not excluding it, with the specified [step].
     * In order to go backwards the [step] must be negative.
     * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.
     */
    public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)
}

/**
 * An iterator over a progression of values of type `ULong`.
 * @property step the number by which the value is incremented on each step.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
private class ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private val step = step.toULong() // use 2-complement math for negative step
    private var next = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextULong(): ULong {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a: UInt, b: UInt): UInt {
    return minOf(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun max(a: UInt, b: UInt): UInt {
    return maxOf(a, b)
}

/**
 * Counts the number of set bits in the binary representation of this [UInt] number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.countOneBits(): Int = toInt().countOneBits()

/**
 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt] number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()

/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UInt] number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()

/**
 * Returns a number having a single bit set in the position of the most significant set bit of this [UInt] number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()

/**
 * Returns a number having a single bit set in the position of the least significant set bit of this [UInt] number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()
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)`

* 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)`

Counts the number of set bits in the binary representation of this [ULong] number.

* Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.

* Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.

* Returns a number having a single bit set in the position of the most significant set bit of this [ULong] 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 [ULong] number, or zero, if this number is zero.

Rotates the binary representation of this [ULong] 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:

`number.rotateLeft(-n) == number.rotateRight(n)`

* Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally:

`number.rotateLeft(n) == number.rotateLeft(n % 64)`

* 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 [ULong.SIZE_BITS] (64) returns the same number, or more generally:

`number.rotateRight(n) == number.rotateRight(n % 64)`

* Counts the number of set bits in the binary representation of this [UByte] number.

* Counts the number of
consecutive most significant bits that are zero in the binary representation of this [UByte] number.

```kotlin
public inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()\n\n/**
 * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.

```
number.rotateLeft(-n) == number.rotateRight(n)

Rotating the binary representation of this [UShort] 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.

number.rotateRight(-n) == number.rotateLeft(n)

Rotating a number by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally:

number.rotateLeft(n) == number.rotateLeft(n % 16)

Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count.

number.rotateLeft(0) == number

number.rotateRight(0) == number

number.rotateLeft(16) == number

number.rotateRight(16) == number

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()

/**
 * Rotates the binary representation of this [UShort] number right by the specified [bitCount].
 * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.
 * number.rotateRight(-n) == number.rotateLeft(n)
 * number.rotateRight(0) == number
 * number.rotateRight(16) == number
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnl
y
public inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative

* No validation on passed parameters is performed. The given parameters should satisfy the condition:

* either `step > 0` and `start <= end`,
* or `step < 0` and `start >= end`.

* param start first element of the progression

* @param end ending bound for the progression

* @param step increment, or difference of successive elements in the progression

* @return the final element of the progression

* @suppress

@PublishedApi
@SinceKotlin("1.3")
@internal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative

* No validation on passed parameters is performed. The given parameters should satisfy the condition:

* either `step > 0` and `start <= end`,
* or `step < 0` and `start >= end`.

* @param start first element of the progression

* @param end ending bound for the progression

* @param step increment, or difference of successive elements in the progression

* @return the final element of the progression

* @suppress

@PublishedApi
@SinceKotlin("1.3")
@internal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toULong())
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

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[Int] value in the specified [radix].

@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic /*inline*/ fun ULong.toString(radix: Int): String = this.toLong().toString(radix)/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic fun String.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic fun String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic fun String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic fun String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic fun String.toString(radix: Int): String = this.toString(radix)/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic fun String.toUByte(radix: Int): UByte = toUByteOrNull(radix = 10)/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic fun String.toUShort(radix: Int): UShort = toUShortOrNull(radix = 10)/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic fun String.toUInt(radix: Int): UInt = toUIntOrNull(radix = 10)/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic fun String.toULong(radix: Int): ULong = toULongOrNull(radix = 10)
UShort.MAX_VALUE) return null
     return int.toUShort() 
    }

/**
 * Parses the string as an [UInt] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for
 * string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUIntOrNull(radix: Int): UInt? {
    checkRadix(radix) 
    val length = this.length
    if (length == 0) return null
    val limit: UInt = UInt.MAX_VALUE
    val start: Int

    val firstChar = this[0]
    if (firstChar < '0') {
        if (length == 1 || firstChar != '+') return null
        start = 1
    } else {
        start = 0
    }

    val limitForMaxRadix = 119304647u // limit / 36
    var result = 0u
    for (i in start until length) {
        val digit = digitOf(this[i], radix)

        if (digit < 0) return null
        if (result > limitForMaxRadix) {
            if (result == limitForMaxRadix) {
                result += digit.toUInt()
                if (result > limitForMaxRadix) {
                    return null
                }
            }
        }
        result *= uradix
    }
    return result
}

/**
 * Parses the string as an [ULong] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)

/**
 * Parses the string as an [ULong] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for
 * string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULongOrNull(radix: Int): ULong? {
    checkRadix(radix)
    val length = this.length
    if (length == 0) return null
    val limit: ULong = ULong.MAX_VALUE
    val start: Int

    val firstChar = this[0]
    if (firstChar < '0') {
        if (length == 1 || firstChar != '+') return null
        start = 1
    } else {
        start = 0
    }

    val limitForMaxRadix = 5124095760343100uL // limit / 36
    var result = 0uL
    for (i in start until length) {
        val digit = digitOf(this[i], radix)

        if (digit < 0) return null
        if (result > limitForMaxRadix) {
            if (result == limitForMaxRadix) {
                result += digit.toUInt()
                if (result > limitForMaxRadix) {
                    return null
                }
            }
        }
        result *= uradix
    }
    return result
}
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("\MathKt\")

```kotlin
package kotlin.math

// constants, can't use them from nativeMath as they are not constants there

/** Ratio of the circumference of a circle to its diameter, approximately 3.14159. **/
@SinceKotlin("1.2")
public const val PI: Double = 3.141592653589793

// region MathKt ================

/** Computes the sine of the angle [x] given in radians. */
@SinceKotlin("1.2")
public expect fun sin(x: Double): Double

/** Computes the cosine of the angle [x] given in radians. */
@SinceKotlin("1.2")
public expect fun cos(x: Double): Double

/** Computes the arc sine of the value [x] \* - the returned value is an angle in the range from -PI/2 to PI/2 radians. */
@SinceKotlin("1.2")
public expect fun asin(x: Double): Double

/** Computes the arc cosine of the value [x] \* - the returned value is an angle in the range from 0.0 to PI radians. */
@SinceKotlin("1.2")
public expect fun acos(x: Double): Double

/** Computes the arc tangent of the value [x] \* - the returned value is an angle in the range from -PI to PI radians. */
@SinceKotlin("1.2")
public expect fun atan(x: Double): Double

/** Computes the arc tangent of the value [x] \* - the returned value is an angle in the range from -PI/2 to PI/2 radians. */
@SinceKotlin("1.2")
public expect fun atan2(y: Double, x: Double): Double

/** Computes the hyperbolic sine of the value [x]. */
@SinceKotlin("1.2")
public expect fun sinh(x: Double): Double

/** Computes the hyperbolic cosine of the value [x]. */
@SinceKotlin("1.2")
public expect fun cosh(x: Double): Double

/** Computes the hyperbolic tangent of the value [x]. */
@SinceKotlin("1.2")
public expect fun tanh(x: Double): Double

/** Computes the inverse hyperbolic sine of the value [x]. */
@SinceKotlin("1.2")
public expect fun asinh(x: Double): Double

/** Computes the inverse hyperbolic cosine of the value [x]. */
@SinceKotlin("1.2")
public expect fun acosh(x: Double): Double

/** Computes the inverse hyperbolic tangent of the value [x]. */
@SinceKotlin("1.2")
public expect fun atanh(x: Double): Double

/** Computes the positive square root of the value [x]. */
@SinceKotlin("1.2")
public expect fun sqrt(x: Double): Double

/** Computes Euler's number e raised to the power of the value [x]. */
@SinceKotlin("1.2")
public expect fun exp(x: Double): Double
```

---

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Computes \( \exp(x) - 1 \). This function can be implemented to produce more precise result for \( x \) near zero.

\[ \text{Computes the logarithm of the value } x \text{ to the given base}. \]

\[ \text{Special cases: } * \text{ Computes the natural logarithm (base } E \text{) of the value } x. \]

\[ \text{Special cases: } * \text{ Computes } \ln(x + 1) \text{ for } x \text{ near zero.} \]

\[ \text{Computes } \ln(1+x) \text{ for } x \text{ near zero.} \]

\[ \text{Computes the binary logarithm (base } 2 \text{) of the value } x. \]

\[ \text{Computes the common logarithm (base } 10 \text{) of the value } x. \]

\[ \text{Computes } \ln(x + 1) \text{ for } x \text{ near zero.} \]

\[ \text{Returns the absolute value of the given value } x. \]

\[ \text{Returns the sign of the given value } x: \]

\[ \text{Returns the smaller of two values.} \]

\[ \text{Returns the greater of two values.} \]

\[ \text{Returns the absolute value of this value.} \]

\[ \text{Returns the sign of this value:} \]

\[ \text{Returns this value with the sign bit.} \]
same as of the [sign] value.\n
*\n
* If [sign] is `NaN` the sign of the result is undefined.\n
*\n
* @SinceKotlin("1.2")\n
* public expect fun Double.withSign(sign: Double): Double\n
*\n
* Returns this value with the sign bit same as of the [sign] 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")\n
* public expect val Double.ulp: Double\n
*\n
* Returns the [Double] value nearest to this value in direction of positive infinity.\n
*\n
* @SinceKotlin("1.2")\n
* public expect fun Double.nextUp(): Double\n
*\n
* Returns the [Double] value nearest to this value in direction of negative infinity.\n
*\n
* @SinceKotlin("1.2")\n
* public expect fun Double.nextDown(): Double\n
*\n
* Returns the [Double] value nearest to this value in direction towards the value [to].\n
*\n
* Special cases:\n
* - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n
* - `x.nextTowards(y)` is `x` when `x.nextTowards(y) == y`\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.MIN_VALUE` when `x > Int.MAX_VALUE`\n
* - `-x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n
*\n
* @throws IllegalArgumentException when this value is `NaN`\n
*\n
* **Computes the sine of the angle [x] given in radians.\n
*\n
* - `\n
* sin([NaN]+Inf|-Inf)` is `\n
* NaN\n
* *\n
* @SinceKotlin("1.2")\n
* public expect fun sin(x: Float): Float\n
*\n
* Computes the cosine of the angle [x] given in radians.\n
*\n
* - `\n
* cos([NaN]+Inf|-Inf)` is `\n
* NaN\n
* *\n
* @SinceKotlin("1.2")\n
* public expect fun cos(x: Float): Float\n
*\n
* Computes the tangent of the angle [x] given in radians.\n
*\n
* - `\n
* tan([NaN]+Inf|-Inf)` is `\n
* NaN\n
* *\n
* @SinceKotlin("1.2")\n
* public expect fun tan(x: Float): Float\n
*\n
* Computes the arc cosine of the value [x] on the interval from `-\n
* to `PI` radians.\n
*\n
* `acos(x)` is `\n
* NaN`, when `\n
* abs(x) > 1` or x is `\n
* NaN`\n
* *\n
* @SinceKotlin("1.2")\n
* public expect fun acos(x: Float): Float\n
*\n
* Computes the arc sine of the value `\n
* under the condition that the corresponding rectangular coordinates `\n
* by computing the arc tangent of the value `[y] / [x]`\n
* *\n
* The returned value is an angle in the range from `-\n
* PI/2` to `\n
* PI` radians.\n
*\n
* - `atan2(0,0)` is `0`\n
* - `atan2(0.0,x)` is `0` for `x > 0` and `-\n
* PI` for `\n
* < 0`\n
* - `atan2(0.0,x)` is `-0.0` for `\n
* 0`\n
* - `atan2(y,0)` is `0` for `y < 0` and `\n
* PI` for `\n
* > 0`\n
* - `atan2(y,0)` is `-\n
* PI` for `\n
* < 0` and `\n
* PI` for `\n
* > 0`\n
* - `atan2(y,0)` is `2\n
* PI` for `\n
* > 0` and `-\n
* PI` for `\n
* < 0`\n
* - `atan2(y,0)` is `2\n
* PI` for `\n
* >= 0`\n
* - `atan2(y,x)` is `\n
* PI/2` for finite `\n
* x`\n
* - `atan2(y,x)` is `-\n
* PI/2` for finite `\n
* x`\n
* - `atan2(0,\n
* x)` and `\n
* atan2(0,\n
* x)` is `\n
* NaN\n
* *\n
* @SinceKotlin("1.2")\n
* public expect fun atan(x: Float): Float\n
*\n
* Returns the angle `\n
* theta` of the polar coordinates `(\n
* theta)` that correspond to the rectangular coordinates `(\n
* x, y)`.
Inf') is `-1.0' *\n\n@SinceKotlin("1.2")\npublic expect fun tanh(x: Float): Float\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 \n@SinceKotlin("1.2")\npublic expect fun asinh(x: Float): Float\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 \n@SinceKotlin("1.2")\npublic expect fun acosh(x: Float): Float\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 * - `tanh(NaN)` is `NaN' *\n * - `tanh(x)` is `NaN` when `x > 1' *\n * - `tanh(1.0)` is `+Inf' *\n * - `tanh(-1.0)` is `-Inf' *\n \n@SinceKotlin("1.2")\npublic expect fun atanh(x: Float): Float\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 \n@SinceKotlin("1.2")\npublic expect fun hypot(x: Float, y: Float): Float\n\n/**\n * Computes Euler's number `e` raised to\n * the power of the value [x],\n * The returned value is `y` such that `exp(y) == x' *\n * Special cases:\n * - `exp(NaN)` is `NaN' *\n * - `exp(+Inf)` is `+Inf' *\n * - `exp(-Inf)` is `0.0' \n * see [exp] function.\n \n@SinceKotlin("1.2")\npublic expect fun exp(x: Float): Float\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 \n@SinceKotlin("1.2")\npublic expect fun expm1(x: Float): Float\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x],\n * The returned value is `y` such that `ln(y) == 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: Float): Float\n\n/**\n * Computes the common logarithm (base 10) of the value [x],\n * The returned value is `y` such that `log10(y) == x' *\n * Special cases:\n * - `log10(NaN)` is `NaN` *\n * - `-log10(x)` is `NaN` when `x < 0.0' *\n * - `-log10(+Inf)` is `-Inf` *\n * - `-log10(0.0)` is `-Inf` *\n \n@SinceKotlin("1.2")\npublic expect fun log10(x: Float): Float\n\n/**\n * Computes the binary logarithm (base 2) of the value [x],\n * The returned value is `y` such that `log2(x) == x' *\n * Special cases:\n * - `log2(NaN)` is `NaN` *\n * - `-log2(x)` is `NaN` when `x < 0.0' *\n * - `-log2(+Inf)` is `-Inf` *\n * - `-log2(0.0)` is `-Inf` *\n \n@SinceKotlin("1.2")\npublic expect fun log2(x: Float): Float\n\n/**\n * Returns the absolute value of the given value [x],\n * The returned value is `y` such that `|y| == |x' *\n * Special cases:\n * - `|NaN|` is `NaN` *\n \n@SinceKotlin("1.2")\npublic expect fun abs(x: Float): Float\n\n/**\n * Returns the smallest Float value that is greater than or equal to\n * 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: Float): Float\n\n/**\n * Returns the largest Float value that is smaller than or equal to\n * 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: Float): Float\n\n/**\n * Returns the absolute value of the given value [x].\n * Special cases:\n * - `abs(NaN)` is `NaN` *\n \n@SinceKotlin("1.2")\npublic expect fun abs(x: Float): Float\n
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```kotlin
@SinceKotlin("1.2")
public expect fun abs(x: Float): Float

/**
 * Returns the smaller of two values.
 * @param a the first value
 * @param b the second value
 * @return the smaller of [a] and [b]
 */
@SinceKotlin("1.2")
public expect fun min(a: Float, b: Float): Float

/**
 * Returns the greater of two values.
 * @param a the first value
 * @param b the second value
 * @return the greater of [a] and [b]
 */
@SinceKotlin("1.2")
public expect fun max(a: Float, b: Float): Float

// extensions

/**
 * Returns the absolute value of this value.
 * @return the absolute value of this value
 * @see Float
 */
@SinceKotlin("1.2")
public expect val Float.absoluteValue: Float

/**
 * Returns the sign of this value:
 *   - `-1` if the value is negative;
 *   - zero if the value is zero;
 *   - `1` if the value is positive
 * Special case:
 *   - `sign(NaN)` is `NaN`
 */
@SinceKotlin("1.2")
public expect val Float.sign: Float

/**
 * Returns the absolute value of the given value [n].
 * @return the absolute value of the given value [n]
 * @see Int
 */
@SinceKotlin("1.2")
public expect fun abs(n: Int): Int

/**
 * Returns the smaller of two values.
 * @param a the first value
 * @param b the second value
 * @return the smaller of [a] and [b]
 */
@SinceKotlin("1.2")
public expect fun min(a: Int, b: Int): Int

/**
 * Returns the greater of two values.
 * @param a the first value
 * @param b the second value
 * @return the greater of [a] and [b]
 */
@SinceKotlin("1.2")
public expect fun max(a: Int, b: Int): Int
```

---

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6507
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1.663 kerb-util 1.0.0

1.663.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1175534904_1624407037.16/0/kubernetes-1-3-71-tgz/package/kotlin.js.map
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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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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

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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

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1.677 spring-bridge 2.6.1

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http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1’s various parts is at:
Links to all available W3C DOM Java Bindings can be found at:
  http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
  http://www.w3.org/Style/CSS/SAC/  
  http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
  http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
  (both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
  http://www.w3.org/TR/SVG11/java.html

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* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/xml/SAXModuleAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/xml/SAXFieldAdapter.java
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  jar/org/objectweb/asm/xml/Processor.java

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  jar/org/objectweb/asm/TypeReference.java
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  jar/org/objectweb/asm/TypePath.java
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  */
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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* /opt/cola/permits/113852962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/util/Textifier.java

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*/
/**
 * Constructs a new [LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 *            a reference to the annotated type. See [TypeReference].
 * @param typePath
 *            the path to the annotated type argument, wildcard bound, array
 *            element type, or static inner type within 'typeRef'. May be
 *            <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *            the fist instructions corresponding to the continuous ranges
 *            that make the scope of this local variable (inclusive).
 * @param end
 *            the last instructions corresponding to the continuous ranges
 *            that make the scope of this local variable (exclusive). This
 *            array must have the same size as the 'start' array.
 * @param index
 *            the local variable's index in each range. This array must have
 *            the same size as the 'start' array.
 * @param desc
 *            the class descriptor of the annotation class.
 */

Found in path(s):
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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*/
/**
* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
* version.
*
* @param mv
*            the <code>MethodVisitor</code> to send the resulting inlined
*            method code to (use <code>null</code> for none).
* @param access
*            the method's access flags (see {@link Opcodes}). This
*            parameter also indicates if the method is synthetic and/or
*            deprecated.
* @param name
*            the method's name.
* @param desc
*            the method's descriptor (see {@link Type}).
* @param signature
*            the method's signature. May be <tt>null</tt>.
* @param exceptions
*            the internal names of the method's exception classes (see
*            { @link Type#getName()} getInternalName()). May be
*            <tt>null</tt>.
* @throws IllegalStateException
*
* If a subclass calls this constructor.
/**
 * Found in path(s):
 * /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
 * jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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 */
/**
 * Constructs a new [ClassNode]. <i>Subclasses must not use this
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 * version.
 * 
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

/**
 * Found in path(s):
 * /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
 * jar/org/objectweb/asm/tree/ClassNode.java
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  jar/org/objectweb/asm/tree/ModuleProvideNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/ModuleNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/analysis/Subroutine.java
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  jar/org/objectweb/asm/util/CheckModuleAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/commons/Remapping/AnnotationAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tools/Retrofitter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/ModuleProvideNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-
  jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/FieldWriter.java
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* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleOpenNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm.Handle.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/ClassReader.java
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* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1138552962_1614290560.59/0/asm-commons-6-0-sources-1-jar/org/objectweb/asm/Label.java

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*/
/**
 * Creates a new [AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 * the owner's class name.
 *
 * @param access
 * the method's access flags (see [Opcodes]).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see [Type]).
 *
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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Eclipse

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* 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

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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

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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

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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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1.695 hadoop-yarn-api 2.8.5

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* /opt/cola/permits/1258617767_1643096298.49/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

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  jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
  jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
  jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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  jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources.jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources.jar/io/netty/handler/ssl/jocsp/JocspClientHandler.java

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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources.jar/io/netty/handler/logging/package-info.java
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources.jar/io/netty/handler/timeout/WriteTimeoutException.java
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/util/package-info.java
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*/
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
*/
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
*/
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/DelegatingSslContext.java
*/
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
*/
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/OpenSslCertificateException.java
*/
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/X509TrustManagerWrapper.java
*/
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
*/
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
jar/io/netty/handler/ssl/Java8SslUtils.java
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
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jar/io/netty/handler/ssl/PemX509Certificate.java
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
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*/
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
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* /opt/cola/permits/1272337501_1644993425.08/0/netty-handler-4-1-71-final-sources-jar/io/netty/handler/bash/SSLHandshakeTimeoutException.java
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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/substitution/package.html
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* /opt/cola/permits/1000749902_1651084404.0/0/commons-digester-1-8-sources-jar/org/apache/commons/digester/xmlrules/digester-rules.dtd
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The End

1.712 cxf 3.4.4

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1.713 ehcache 3.3.1

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* /opt/cola/permits/1152035246_1618042665_09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/builders/WriteBehindConfigurationBuilder.java
* /opt/cola/permits/1152035246_1618042665_09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/NullCacheEntryEventFilter.java
* /opt/cola/permits/1152035246_1618042665_09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/executor/PartitionedScheduledExecutor.java
* /opt/cola/permits/1152035246_1618042665_09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/spi/persistence/package-info.java
* /opt/cola/permits/1152035246_1618042665_09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/config/builders/CacheManagerConfiguration.java
* /opt/cola/permits/1152035246_1618042665_09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/events/CacheEventListenerConfiguration.java
* /opt/cola/permits/1152035246_1618042665_09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/core/exceptions/ExceptionFactory.java
* /opt/cola/permits/1152035246_1618042665_09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/statistics/ZeroOperationStatistic.java
* /opt/cola/permits/1152035246_1618042665_09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/jsr107/internal/WrappedCacheLoaderWriter.java

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org.ehcache.jsr107.internal.Jsr107CacheConfigurationParser

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jar/org/ehcache/impl/internal/concurrent/ForkJoinPool.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/concurrent/ConcurrentHashMap.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/concurrent/CountedCompleter.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/concurrent/ThreadLocalRandom.java
* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-
jar/org/ehcache/impl/internal/concurrent/ForkJoinTask.java
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* /opt/cola/permits/1152035246_1618042665.09/0/ehcache-3-3-1-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/reflect/ConstructorUtils.java
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  jar/org/apache/commons/logging/impl/WeakHashtable.java
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* 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

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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

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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

------
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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/package-info.java
* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java
* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/RxtxChannelOption.java
* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java
* /opt/cola/permits/1258617735_1643096344.75/0/netty-transport-rxtx-4-1-71-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java

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*
For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

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/*
 LZ4 - Fast LZ compression algorithm
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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h:

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* /opt/ws_local/PERMITS_SQL/1044928724_1591094180.29/0/okio-2-6-0-sources-jar/jvmMain/okio/HashingSink.kt
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1.748 jaxb2-basics 1.11.1

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1.750 tiger-types 1.4

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<head profile="http://www.w3.org/1999/xhtml/vocab">
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    <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
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Manifest-Version: 1.0
Bnd-LastModified: 1472011116283
Build-Jdk: 1.7.0_79
Built-By: tatu
Bundle-Description: Woodstox is a high-performance XML processor that supports StAX (JSR-173), SAX2 and StAX2 APIs
Bundle-DocURL: https://github.com/FasterXML/woodstox
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Bundle-ManifestVersion: 2
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Last revised by Reagle $Date: 2005/06/03 22:49:13 $

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Eclipse

The following artifacts are EPL.
* 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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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

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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

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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
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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1.767 dozer 5.5.1

1.768 twill-common 0.6.0-incubating

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* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2.jar/org/apache/twill/filesystem/LocationFactories.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2.jar/org/apache/twill/common/Threads.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2.jar/org/apache/twill/filesystem/ForwardingLocationFactory.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2.jar/org/apache/twill/common/Cancellable.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2.jar/org/apache/twill/filesystem/LocalLocationFactory.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2.jar/org/apache/twill/filesystem/LocalLocation.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2.jar/org/apache/twill/filesystem/Location.java
* /opt/cola/permits/1137746870_1614121577.24/0/twill-common-0-6-0-incubating-sources-2.jar/org/apache/twill/filesystem/LocationFactory.java

1.769 jetty-jaas 9.3.25.v20180904
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* java.sun.security.ssl

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  org.apache.tomcat:tomcat-api
  org.apache.tomcat:tomcat-util-scan
  org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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/**
 * Clean up all running server instances of a ZooKeeper service.
 * <p>
 * This command removes snapshots and transaction log files kept by
 * ZooKeeper for backup purposes. Refer to the ZooKeeper documentation
 * for more details.
 * 
 * @param serviceName The service to start.
 * @return Information about the submitted command.
 */

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 * @return version
 **/
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  jar/com/cloudera/api/model/ApiServiceTypeList.java
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- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
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- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/v1/CommandsResource.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/v3/MgmtRoleConfigGroupsResource.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/v16/ExternalAccountsResourceV16.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/v4/package-info.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/ApiReplicationScheduleList.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/ApiCluster.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/ApiHiveReplicationError.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/ApiClusterTemplateService.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/ApiRoleNameList.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/ApiTenantUtilization.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/BaseApiSshCmdArguments.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/v6/RootResourceV6.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/v18/MgmtRolesResourceV18.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/ApiSnapshotPolicy.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/ApiAuthRole.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/v32/DataContextsResourceV32.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/ApiParcelUsage.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/v12/ClustersResourceV12.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/v18/ServicesResourceV18.java
- * /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-
  jar/com/cloudera/api/model/ApiClusterUtilization.java
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* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v11/CommandsResourceV11.java
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* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiReplicationDiagnosticsCollectionArgs.java
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/**
 * Returns details about the query. Not all queries have details, check
 * the detailsAvailable field from the getQueries response.
 * <p>
 * Available since API v4.
 * 
 * @param queryId The queryId to get information about
 * @param format There are two valid format parameters:
 * <ul>
 * <li>
 * 'text': this is a text based, human readable representation of the
 * Impala runtime profile.
 * </li>
 * <li>
 * 'thrift_encoded': this a compact-thrift, base64 encoded representation
 * of the Impala RuntimeProfile.thrift object. See the Impala documentation
 * for more details.
 * </li>
 * </ul>
 **/
* @return The query details
*/

Found in path(s):
* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/v4/ImpalaQueriesResource.java

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* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiReplicationState.java

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* /opt/cola/permits/1272323576_1653643775.274488/0/cloudera-manager-api-6-3-0-sources-jar/com/cloudera/api/model/ApiHiveUDF.java

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/**
 * The details for this query. Two formats are supported:
 * <ul>
 * <li>
 * 'text': this is a text based, human readable representation of the
 * Impala runtime profile.
 * </li>
 * <li>
 * 'thrift_encoded': this a compact-thrift, base64 encoded representation
 * of the impala RuntimeProfile.thrift object. See the Impala documentation
 * for more details.
 * </li>
 * </ul>
 */

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/**
 * Cleanup a list of ZooKeeper server roles.
 * <p>
 * This command removes snapshots and transaction log files kept by
 * ZooKeeper for backup purposes. Refer to the ZooKeeper documentation
 * for more details.
 * *
 * @param roleNames The names of the roles.
 * @return A list of submitted commands.
 */

1.777 slf4j 1.7.30

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1.778 kerb-simplekdc 1.0.1

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1.779 jetty-xml 9.4.20.v20190813

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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

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

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The following artifacts are ASL2 licensed.

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

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* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/bytes/SingleBufferInputStream.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/ShouldNeverHappenException.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/SemanticVersion.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/Strings.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/Files.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/IOExceptionUtils.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/bytes/ConcatenatingByteArrayCollector.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/util/DynConstructors.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/glob/WildcardPath.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/glob/GlobNode.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/VersionParser.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/bytes/ByteBufferAllocator.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/glob/GlobParser.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/bytes/ByteBufferInputStream.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/glob/GlobExpander.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/glob/GlobExpander.java
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  jar/org/apache/parquet/bytes/HeapByteBufferAllocator.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
  jar/org/apache/parquet/Preconditions.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
  jar/org/apache/parquet/bytes/CapacityByteArrayOutputStream.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
  jar/org/apache/parquet/Ints.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
  jar/org/apache/parquet/Log.java
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  jar/org/apache/parquet/hadoop/metadata/Canonicalizer.java
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  jar/org/apache/parquet/bytes/BytesInput.java
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  jar/org/apache/parquet/bytes/BytesUtils.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
  jar/org/apache/parquet/bytes/LittleEndianDataOutputStream.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
  jar/org/apache/parquet/ParquetRuntimeException.java
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* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/validators/PositiveInteger.java
* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/validators/NoValidator.java
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* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/MissingCommandException.java
* /opt/cola/permits/1136701934_1613865330.83/0/jcommander-1-30-sources-1-jar/com/beust/jcommander/ResourceBundle.java
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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java
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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_limits.h
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_util.c
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_util.h
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_limits.c
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_limits.c
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_util.h
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_limits.c
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_socket.c
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_filedescriptor.h
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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_socket.h
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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_errors.c
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
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 * /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/io/netty/channel/unix/Buffer.java
 * /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-jar/netty_unix_buffer.c
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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/io/netty/channel/unix/IovArray.java
* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
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* /opt/cola/permits/1272337431_1644993388.72/0/netty-transport-native-unix-common-4-1-71-final-sources-
jar/netty_unix_jni.h

1.798 jetty-runner 9.3.20.v20170531
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1.800 jamon-runtime 2.4.1
1.801 spring-context 5.2.5.RELEASE

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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
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 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
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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
 *<p>@author Juergen Hoeller
 *<p>@author Rob Harrop
 *<p>@since 2.0.3
 *<p>@see javax.management.MBeanServer
 *<p>@see MBeanServerFactoryBean
 */

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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/cache/interceptor/SimpleKey.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/ComponentScan.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/ConfigurationClassParser.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java
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/**
 * Indicates that a component is only eligible for registration when all
 * [{@link plain #value specified conditions}] match.
 *
 * <p>A &lt;em&gt;condition&lt;/em&gt; is any state that can be determined programatically
 * before the bean definition is due to be registered (see &lt;link Condition&gt; for details).
 *
 * <p>The [{@code @Conditional}] annotation may be used in any of the following ways:
 * &lt;ul&gt;
 * &lt;li&gt;as a type-level annotation on any class directly or indirectly annotated with
 * [{@code @Component}], including [{@link Configuration @Configuration}] classes&lt;/li&gt;
 * &lt;li&gt;as a meta-annotation, for the purpose of composing custom stereotype
 * annotations&lt;/li&gt;
 * &lt;li&gt;as a method-level annotation on any [{@link Bean @Bean}] method&lt;/li&gt;
 * &lt;/ul&gt;
 * 
 * &lt;p&gt;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.
 * 
 * &lt;p&gt;&lt;strong&gt;NOTE&lt;/strong&gt;: 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
*/

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  jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
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  jar/org/springframework/context/event/EventListenerFactory.java
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jar/org/springframework/jmx/export/annotation/ManagedOperation.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/jmx/export/assembler/AutodetectCapableMBeanInfoAssembler.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/event/EventListener.java
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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-jar/org/springframework/context/support/context/ApplicationEventMulticaster.java
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  jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
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  jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
  jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
  jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
  jar/org/springframework/context/ApplicationEventPublisherAware.java

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* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
  jar/org/springframework/format/datetime/joda/LocalDateParser.java
* /opt/cola/permits/1138654332_1614305843.13/0/spring-context-5-2-5-release-sources-2-
  jar/org/springframework/context/support/MessageSourceResourceBundle.java
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